

GATCCAGGGG CTGATTGGCA GCGTGGAGGA GCAGCTGGCC CAGCTTCGCT GCTGAGATGG 60  
 AGCAGCAGAA CCAGGAATAC AAAATCCTNC TGGATGTGAA GACGCGGCTG GAGCAGGAGA 120  
 TTGCCACCTA CCGCCGCTN CTGGAGGGAG AGGATNCCCA CCTGACTCAG TACAAGAAAG 180  
 AACCGGTGAC CACCCGTCAG GTGCGTACCA TTGTGGAAGA GGTCCAGGAT GGNAAGGTCA 240  
 TCTNCTNCCG NGNCAGGTT CACCAGACCA CCNGTTTGAG GNCTCANCTA CCCC GGNTCG 300  
 GNCANCCATN TNN 313

SEQ ID NO:4958

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05908

SEQUENCE DESCRIPTION:

GATCATTAAAT GTCATTGCAA TNGTTATTTT TTAAATAAAA TTTATAAAAA TAAA 54

SEQ ID NO:4959

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05912

SEQUENCE DESCRIPTION:

GATCTACAAG AGCAAGCCAA CAGAGTAAAG TGGAAGGAAG TTTATTCAGA AAATAAAGGA 60  
 GTATCACAGC TCTTTTAGAA TTTGTCTAGC AGGCTTTCCA GTTTTACCA GAAAACCCCT 120  
 ATAAATTAATA AATTTTTTAC TTAAATTTAA GAATTAATAA AATACAAAAA AGAAAAAATG 180  
 AAAATAAAGG AATAAGAAGT TACCTAAA 208

SEQ ID NO:4960

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05913

SEQUENCE DESCRIPTION:

GATCCAAGTT ATAGATGGAA TTGAAGCCCT TGTCGCTGTA GATGTGCGTG CAGTCTGNCA 60  
 GCCTTAAGCC CACCTNGGCA CTTTGTAGATA AA 92

SEQ ID NO:4961

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05914

SEQUENCE DESCRIPTION:

GATCAACAGT AACTGGATGT TTTNAGGNG CTCAATTGGA ATAAAAATAT TNNAATCTAT 60  
 TTGGAGACCA AAGGCAAAAT CGGTTTTCTT ACCTTTGGAA TTATTCGTAC CTTTATGGT 120  
 AAATTCAGC TTTGACANGT ATTATGAGGA ACGTACCAA AACC GGTTTG TAACAAATCT 180  
 NTAGAGNAGG TCTGAATCTN TCGNNCTTGC CTTTTCAGGT GCCATTTCTA CTGGCCTAAT 240

ACAGNGCCAT TTGGCTTGTG AAGNNCCATN

270

SEQ ID NO:4962

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05916

SEQUENCE DESCRIPTION:

GATCTATGCC CNTNTTAATC TCCATCCATA TAGGAGTCAC GTTCTTTAAG ACAGATGGTG 60  
GTAGTTATTT TTGTGGCATG GTTAGATTG ACTGGTTTGG CAGAAGATTA CAGTTATGTA 120  
CTGCATAATG NCATATACAA TAGTGGTCCC ATAAANNNNN TAATGGAGCA GAAAATCTAT 180  
TGCCTCATGA TGTTTTAGCC GGTTTANTGT CATAGNCTAG TGCATNACTC ACGTGN 236

SEQ ID NO:4963

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05917

SEQUENCE DESCRIPTION:

GATCGAGTAA GGAATGACCT NTAGATTGTG CGACTTTTGT TTTTGTTTN TTAAATTTT 60  
ATAAACCAAG AATGATTCT CCNGCTCCN TCTCCTCACC ATCTCCCAG ACGGAGTTCA 120  
AAGGCCACTT CTCAAGCAGC TTTTGGCACC TTCAGCCTCA GAGTGGAATC TTTTAAAGAC 180  
AGGACCCCTA TGTCCAGGNA AGGGGAAAAG GAACNTTGCC ANTGATAGTG ACCACAGCAN 240  
NNGCAANTAA TAGTAATNTT NATAN 265

SEQ ID NO:4964

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05918

SEQUENCE DESCRIPTION:

GATCACATTT ATACAGTTAT AAAAATAAAG GTTTGATTTT GGTCGTTCTT CAAA 54

SEQ ID NO:4965

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05919

SEQUENCE DESCRIPTION:

GATCTCTATG GCTGTAAAT ATTTCTTTAT AGCGTTATTA AAGTGTGTCT TAATAAAATT 60  
AAA 63

SEQ ID NO:4966

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05920

SEQUENCE DESCRIPTION:

GATCCACAAA AGAAGTGAAA GTAGCCTTAA CTGATGACAT TCCACCATTG TNATTGTTC 60  
CTGCCCCACG CTAAGTGATA CCATATATTC TTCCCCCGCC CTTGAGAATG TACTTTGTAC 120  
ACCTATCCCA AACCTATAAG AACTAATGAT AATCCNACCA CCCTTTGCTG ACTCTCTTTT 180  
TGGACTCAGC CCGNCTGCAC CCAGGTGAAA TAAACAGCCC TGTGCTCAC AAA 233

SEQ ID NO:4967

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05921

SEQUENCE DESCRIPTION:

GATCTCTGCG TTTTATACT GAGTGTGCCT AGGTTGCCCC TTATTTTNA TTTCCCTGT 60  
TGCCTTGCTA TAGATGAAGG GTGAGGACAA TCGTGTATAT GTACTAGAAC TTTTATTATA 120  
AAGAACTTT TCCCAA 137

SEQ ID NO:4968

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05923

SEQUENCE DESCRIPTION:

GATCTGTAAA CCCTTACCCC TTGCTGTTCA GAGAGCTACT CTTGTAGTG TTCTGCATG 60  
CATATATAAT AAATATTTT TCTATTGAAA 90

SEQ ID NO:4969

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05925

SEQUENCE DESCRIPTION:

GATCTAAATC AATGCAATAA AGTAAGAAAA ATAAATAAAA GTATTGAAAA GATTGAAAAG 60  
AAAGAATTGA AGCTGTCTTT ATTCACAGAT AATGACTGTG TATGTTAATA ATCCTAGANA 120  
TCTACAAAAN TCTGCCAAAN CTAATTAGTG AGTTTGGTAA TGTTCAGGA TATAAGCTCA 180  
ATAGAAGTAG TCTTTNGTAT TTCTGTGTAT TAGCAGTGAG CATTTGAAA ATGANATAAN 240  
ANTACAGTTT CATTTCAAA 259

SEQ ID NO:4970

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05926

SEQUENCE DESCRIPTION:

GATCTGTGCC CTTGGTCCCA GGTCAAGGCC ACCCCCTGCA CCTCCACCTG CCCCAGCCCC 60  
TGCCTCTNCC CCAAGTGGGG CCAGCTGCCC TCACTTCTGG GGTGGATGAT GTGACCTTCC 120  
TTGGGGGACT GCGGAAGGGA CGAGGGTTCC CTGGAGTCTT ACGGTCCAAC ATCAGGACCA 180  
AGTCCCATGG ACATGCTGAC AGGGTCCCCA NGGAGNCCCC GTCAGTAGGG ATGTTTGCCT 240  
GGNTGTTTAC GTNGGGGTGT NCAGTGNACG TGNAGGAGCA CGTGGGCGGC TTCTGNGGGG 300  
GNCAATGGTT TGGGGNANGG GAAGGTGTGC CAGCAAACCT NGGNNGGATN 350

SEQ ID NO:4971

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05927

SEQUENCE DESCRIPTION:

GATCCACGGG CTGCAGAATG GATATTGTAT TAGCAGGCAT GAAAACAACA TTCATCTCCT 60  
TGTGCATCTC TGTCTGAGTT CTTGGGTGAC CAAATGCCTT GTCAATGAGT GTAGTATTTT 120  
GAAAGGAATC TTTTTTTTTT TTTTCNCAGC AGTAGGNCNC AANGGTGGGC TTCAATTATT 180  
CAGTAAACTA TGTAANCAGA AA 202

SEQ ID NO:4972

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05928

SEQUENCE DESCRIPTION:

GATCCAGCT ACTCAGGAGG CTGAGGCAGA AAAATCACTT GAACCCAGGA GGTGGAGGTT 60  
GCAGTGAGCA GAGACCACAC AACTGCACTC CAGTCTGGGC AACAAAGTGA GACTCTGTNT 120  
TACTAAA 127

SEQ ID NO:4973

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05932

SEQUENCE DESCRIPTION:

GATCCTATCA ATTAGACAGT AAATAAGTGC ATCTTTTTTG AGACAAATGC AGTAGGCAAA 60  
TGTTGACATT CACCAGGGCA CAGTCAATCC CTGACAATT CAGAAGTTT GTTGCCAATA 120  
CTGATTTATG TGGGCAGATT CTGGNAGTCT GCTGCTCCTT CNCTCATGGA TNACCTNCNN 180  
NNNCCTACAG TTGCACCTAT TCTACACAAG AGTGGCATTC ANTNGTATCC AGGAAAGCTA 240  
GANCAGGTN 249

SEQ ID NO:4974

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05933



## SEQUENCE DESCRIPTION:

GATCCGAGTC GTCCGGAAAT CCATTGCCCG TTTCTCACA GTTATTAACC AGACTCAGAA 60  
 AGAAAACCTC AGGAAATTCT ACAAGGGCAA GAAGTACAAG CCCCTNGACC TCGGGCCTAA 120  
 GAGACACGTG CCATGCGGCN NCGCTNAACA AAGACGGGNG AACTTAAGGC CAGGAGAGCA 180  
 NNGNAGGAN 189

SEQ ID NO:4975

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05934

## SEQUENCE DESCRIPTION:

GATCATCATC TTTCAGGTGG TCTTCCTGGG CCTCCTGGCT GGCCTGGTGG TCCTATTCTA 60  
 CGNATATCCT GTCCNCTGTG AGTGGTATGA GTTCCTCACC TGCATCCCCT TCACTGACAA 120  
 GTTCTGTGAG AAGTACGAAC TAGATGCTCA GCTCCACTGA GCTNGCTGCG GGGTTNCAGC 180  
 GNNGGGTGTG CTCCAGCAGG GCCAGAGNCA GNCAAGANCT ACNCTGNNGN 230

SEQ ID NO:4976

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05937

## SEQUENCE DESCRIPTION:

GATCATTAAAT TATATGTAAA ATAATATACA TTCAGTTATT AAGAAATAAA CTGCTTTCTT 60  
 AATAAA 66

SEQ ID NO:4977

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05938

## SEQUENCE DESCRIPTION:

GATCTATGTC TTTCAGCTAT GTGCTTTTAA AACTTTGTAA TTTAGACATT GATATTGTCA 60  
 TCAGATTGCT TATCAGCATT GCCATAAATA TAATTATTAA TGAAA 105

SEQ ID NO:4978

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05939

## SEQUENCE DESCRIPTION:

GATCTGCCCA CCTCGGCCAC CCAGAGTGCT GGGATTACAG NCGTGAGCAC CGTGCCTGAC 60  
 CAAAATAAAT AAATTTTAAA ATAGAAGTAA CTCAACTTCT GAGCTATGGA ATAGTTCTCT 120  
 GTACCTCCAG TACCTAATAA AGAACCCAAA TACTGCAATA AA 162

SEQ ID NO:4979

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05940

SEQUENCE DESCRIPTION:

GATCGAGGAC TGGTACAGGA ACCACCAGGA GGAAGACCTG ACTGAATTCC TCTGCGCCAA 60  
CCACGTGCTG AAGNGAAAAAN ACACCAGTTN CCTGGCAGAG CAGTGGTCCG GCAAGAAGGG 120  
AGACACAGNT GCCCTGGGNG GGANGAAGTC CAAGAAGAAG AGCATCANNG CCAAGGCAGC 180  
AGGNGTCAN 189

SEQ ID NO:4980

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05941

SEQUENCE DESCRIPTION:

GATCTNTTTA AAAAATGTAT AAATTNCTTG AGTAATTCCT GGATTAAAGA ATATGCACTT 60  
TTTAAA 66

SEQ ID NO:4981

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05942

SEQUENCE DESCRIPTION:

GATCGCTGGC ATCAAGAGTG GAGAGGACCG NACAGCCGNG AAGGCAGCCT TTCANGAACC 60  
TATGCTGGTG AGTGTAGGAG ATNGCTTANG AAGAGCTCAG ACCCTCTATC AAN 113

SEQ ID NO:4982

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05943

SEQUENCE DESCRIPTION:

GATCATAGTT ATTATACAAT GTAGTGAGTC CTGCATGGGT NCTCGATGTG TAATGAAACC 60  
TGAAATAATA AGATAATAAG AAAAGCAATA ATTTTCTAAA GCTGTGCTGT CGGTGATACA 120  
GAGATGATAC TCAAATTATA ATAAACTCT TCATTTTGTG AATTATAGAA GCTACTNNNN 180  
NTAAAGCCAT ATTTTTTTAG GGAAACTAAG GAGTGACATA GAACTGATGA ATGAGCAAAA 240  
GTAAGTTTGT CTGGATTTT GTAGAACTCT GGACGTTGAG GATTCATTAT GCTGTGGTTA 300  
ACTTTAAATA TTTTNN 316

SEQ ID NO:4983

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05946

SEQUENCE DESCRIPTION:

GATCAGCCCA CTCAGTCTC CCAAAGTGCT NGGATTACAG ACATGAGCCA CCTACCTGNC 60  
 CGGAGTTATT TCTAAACACA ACTAATATCA GAATCGCCTA TTTCATAAAA ATTGGATTCA 120  
 TCAAATNAAT CTTTGGCCAA CAACCATTTG AGAATGATNN NNANCATCAT ACATAGGAAT 180  
 GCTACGTTTT CTAGGATTTG ACATTTACAG CANTCGAGAN TTACCCTATT TTGTAAATNG 240  
 AAATAACCAT TACTAAAATC ATGCAAGCTT CAGCTNCTCG GGTTCTATA GNGTCACCTA 300  
 AATCGTATGT GNATGGATAC ATAAGGNTTA TGNATCAN 338

SEQ ID NO:4984

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05947

SEQUENCE DESCRIPTION:

GATCCGCCCG CCTTGGCCTC CCAAGGTGCT GGGATTGTAG GCGTGAGCAC CCCTGGCCTC 60  
 NAATNTTCAC ATTTATATAC TGAATTATAC ATTACATTAT GTACATATGA TAACTAGTTG 120  
 CTAAATATT TTAATAAATT ATATCTAATG TAAA 154

SEQ ID NO:4985

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05948

SEQUENCE DESCRIPTION:

GATCATGCAG AGAATATATA TTGTACTGTA GTAATTTNT ATTTACATTT GTATGATGTG 60  
 ACATAATAGA TGTGAATGTT AATCACTGNT TGACTATGTT AATAAAGTTG TTAACTATA 120  
 AA 122

SEQ ID NO:4986

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05949

SEQUENCE DESCRIPTION:

GATCTCTATT TTAATNNTAA TTCTAGTTAG TTGTGCCTNA ACTCCAAAGA AATGNGAGTA 60  
 TAGTGAGGTA TGTCTGACTC CCACTTCTTA TCATGCTCTG AACTAGTTNT TTATGTTTCT 120  
 TTGTGTTNCC TTN 133

SEQ ID NO:4987

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05951

## SEQUENCE DESCRIPTION:

GATCGCACAC ATGCTTTNTT NNNATATGGA GTGAACACAA TTATGTACCA AATTTAACTT 60  
 GGCAAACTTT CTATTGCCGTG TCCCATGTGC ATCTTATTTA AAATTTCCCC CATGGAAATC 120  
 ACTCTCCTGT TGACTATTTC CAGAGCTCTA GGTGTTTAGG CAGCGTGTGG TGTCTGAGAG 180  
 GCCATAGCGC CATCATGGGC TGATTTTNA TTACCAGGTC CCCCAGAAGC AGGTGGGGAG 240  
 GCTCTGCTTN CTGCTGCCGG TCTNCAAGNC TTGGACCTNT GGACCCTGNT TTGTAAAGNG 300  
 TAAATTNGTA TCCTTNAGGG AAACCCAAGT GTCAACCTTG TTTNTCAAT N 351

SEQ ID NO:4988

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05952

## SEQUENCE DESCRIPTION:

GATCGACACA TTCGNATCTN NAATGNGTGC TCTGGGGCCT GTCTGAGTGC CGTGGATGCC 60  
 CATTCCCAGG TGTGCTCCAT CCTCTGGTCT CCCCATTACA AGGAGCTCAT CTCAGGCCAT 120  
 GGCTTTGCAC AGAACCAGCT AGTTATTTGG AAGTACCCAA CCATGGCCAA GGTGGCTGAA 180  
 CTCAAAGGTC ACACATCCCG GGTCTGAGT CTGACCATNA GCCCAGATNG GGCCACAGTG 240  
 GCATCCCGNA GCANCAGATT GNGACCNTGA GGCTATGGNC GCTGTTTTGA NGTTGGTACC 300  
 NTGCGNNGGN 310

SEQ ID NO:4989

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05953

## SEQUENCE DESCRIPTION:

GATCTGAAAC AAAATCTTTC TAAACATTG TTTTAGTTGT CAAAGCACCA ACAGGACATT 60  
 TTGGGATGTG AAATGTAATT TCTTGAATC TGTAATTTGT ACTTAATATT TNAGGCTTGT 120  
 ATTTAATATA ATAAATAGGT GTTTGTAAAA 150

SEQ ID NO:4990

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05954

## SEQUENCE DESCRIPTION:

GATCATCCCT TCACAATCCC AGAGTGGCAG GCGGGACCAG CCCCATGGTC TGGCTCCTGT 60  
 CACCTGGGTC CGTGCCAGCA CAATCTGCCA AAGTTCTAGA GACCCTGTTT CCTTCCCCAT 120  
 NAGGTCACAT GCTTCTCTG TGTGTATTTC TTTTGTGTTT TATGGTTTTT GGAGCAATTT 180  
 AAACCTCCAG TTGNNTATTT TCACAAAAGA AANTAAAATT GCAGTTGCAA GCCCTTTAAA 240

SEQ ID NO:4991

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05955

SEQUENCE DESCRIPTION:

```
GATCCTTTT TGTACATTTA AGAATATTTT GATTATATTA AACAAAGACTG CTGATTTTGC 60
TACTTTTTT AAGGGGTCTT CANGTANGTA AAACATACAT CGTAGCTAGA AGAAAAATGT 120
ACCTTAAATT TGCATCTTCC CTCTCATACC CAAGCTGTAA ACAATTGAAA TATTTTGTCT 180
TAAATCACTT GGTCAATAC ATGCTTATTT GTTTTAAAC CTGTATCATC ANACTCTCTC 240
TCNAAATTTA AAATGCTGTT GAATATGATA CTTTGTAGGA GAGAGTGTGC TCAGAACTTA 300
GACGGGGTTT GGTAGGCCAA NGN 323
```

SEQ ID NO:4992

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05956

SEQUENCE DESCRIPTION:

```
GATCTTAACC ATCACAAGTT TTTACCCTCT TCCTTCATGC CTGACCTCAA CCCCCTCTC 60
CTCATCCTAT TCCTAAATTA GGCTAATAAA GTGAAATTGG TATACTTAAA 110
```

SEQ ID NO:4993

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05957

SEQUENCE DESCRIPTION:

```
GATCGCTTGA GCCCAAGAGT TTGGGACCAA TCTGAGCAAT ATAGCAAGAC CCCATCTCTA 60
CAAAGAATAA AGAAAAATTA GACTAGCTTG GTGGCATGTG CCTGTGGTCC CAGCTACTCA 120
AGAGGCTGAG GTAGGAGGAT TGCTTGAGCC TGGGAGGTGG AGGCATCAGT GAGCCATGAC 180
CGTACCACTT CATTCCAGCC TAGGTAACAG AATAAGACCC TGTCTAAA 228
```

SEQ ID NO:4994

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05959

SEQUENCE DESCRIPTION:

```
GATCAAGCTA CACATCAGTT TTACAATATA AATACTTGTA CTACCTTAAT GATAAGNACT 60
CCTTAAAGTT CCATTGCTA ATNATTAATA CACTGTTTGG GCTGGCCAGT TTTTCATGCA 120
TGCAGCTTGA CGATTGAGCA CAGTCAGGCC TTTGTATTAA AAATGAAANA TGAAANAACA 180
AA 182
```

SEQ ID NO:4995

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05960

SEQUENCE DESCRIPTION:

GATCAACTGG TTTGTGTTTT GCTGCTGCAT TTATCCCAAG TNAACAGGT TTAATCTCCA 60  
GANGAAAACC AAAATACCAT GGGATTTATG CTGNATTGAC ATCTTGCCCT AAACGNACAA 120  
CATCATAGTA ATTTGTCATG GGCAACATGA CCAGNGAGAA GATTTTTGTC ATGATTTTAA 180  
ATACACTGNC ACGCTACTGT TGGTTAAATT TAAACANGTT TTACCTGCAG NAATTCTCTC 240  
ACAAATAACC NGCAATAACT TGAAATGCAT NCCCTTTTGA ACACTTCCTT TNCTCATGGN 300

SEQ ID NO:4996

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05961

SEQUENCE DESCRIPTION:

GATCCTGCTC CCTTCTGGGC TCTGACTCTC CTGGAAATCT CTCCAAGGCC AGAGCTATGC 60  
TTTAGGTCTC AATTTTGGAA TTTCAAACAC CAGCAAAAAA TTGGAAATCG AGATAGGTTG 120  
CTGACTTTNA TTTTGTCAAA TAAAGATATT AAAAAAGGCA AA 162

SEQ ID NO:4997

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05962

SEQUENCE DESCRIPTION:

GATCTCAACA ATATTCTTCC AAAATGGCAT ACATCTTTTG TACAAAGAAC TTGAAATGTA 60  
AATACTGTGT TTGTGCTGTA AGAGTTGTGT ATTTCAAAAA CTNAAATCTC ATAAAAAGTT 120  
AAATTTTGT CTGAAA 136

SEQ ID NO:4998

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05963

SEQUENCE DESCRIPTION:

GATCTGACCT CAGAATATGC TTTCAGTGTT ATTTCTGACT AGTCCTTTTT AAA 53

SEQ ID NO:4999

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05964

SEQUENCE DESCRIPTION:

GATCTGCATA AAGTNTTACA AACAAAATCC TCTTNATGAG CAACACATTT TTCAGCTGCC 60  
AGTCAGACCA ACTGCTGTAA AGAACTTATA TCAAAGTGAG AAGCCACAGA AATGGAGAGT 120  
GGAAATATAT AGTGGTCAAA AGANGATTAA GACAGTTTGG CAACTGAGTG ACAGCTCACC 180

CATAGACCAT CTGANTTTNC ACAAACCTGA TTTTTCGGAA TTATCACTAN ACGGTAGCCT 240  
 NGAAGAAAGG NTATNCTTTN CTANCATGGT TACCTGCAGC CAGGTGCATT TGCAAGTGAN 300  
 GTGTGCTGGT TGANGTCCTC TTNTAAGGGN ATTN 334

SEQ ID NO:5000

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05966

SEQUENCE DESCRIPTION:

GATCTTCCAC TAGATGTCAC CAAAAGGACT GAGAACTAGA GAAAAGGGCT GCGATTCTG 60  
 CTCTCCTTGT AAGATTGCAC AAAAGANTAA ATTGCATTGA TCGCTGTTTG CATGAAA 117

SEQ ID NO:5001

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05967

SEQUENCE DESCRIPTION:

GATCCCCCTT CNAGGTAGTG AAAATNAAAT NCGCCGGAGT GTGGCTGCCT TCACCGCGGA 60  
 CCCTCTGTCT CTCCTGCGCA ACGTCTGAGC ACAGGAGCCC ATCCTTGGCT CTAGGNTTCC 120  
 NCCGCTGGAA GCCTTCTGTT CANACACCCC TTATGNTCCA AGGCCTGATG TGAGCCAGCG 180  
 GGGGGTGCAT GGGAAACTGN ACCCNACAAC CCACATCCTN CATCCTGACT GCAGCANTGG 240  
 GGTTCCTCCG CAGGGNTGGG TGAGGNAGGA AGGGGGTCAA GCCTGGNGTN 290

SEQ ID NO:5002

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05968

SEQUENCE DESCRIPTION:

GATCACCGTG AATCCGGCTT CCTCTGAGCA TTCGATGGCC TTAGCACCTC ATCAAGCCAG 60  
 CACATCCTGC CTGCTGTTGC AGCCTGGCTG GGTATTATCT TCAGTTACCC TAATCCCATG 120  
 ATGCCTGGAA CTTGATTAC CGTTTTACAT CAGCTCTGT ACTTTNAGT ATATTTTCAT 180  
 AATGAGTTAT ATTGTCATTT AGACTTTGAA CAGCTCTGGG AAATAGAAGA CTAGGGTTGT 240  
 TTCTTAAAGT TTAGCTCATG TTATAATAAA AAGTTGNAAT GAAA 284

SEQ ID NO:5003

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05969

SEQUENCE DESCRIPTION:

GATCGTCCCT GGTCAACCGA CTTTGGAATT TGCACCATCA TGTTTCAGTG AAGATGCTGT 60  
 AAATAGGTTC AGATTTTACT GTCTATGGAT TTGGGGTGTT ACAGTAGCCT TATTCACCT 120

TTTAATAAAA ATACACATGA NGACAAGAAA GAAATGGCTT TTCTTACCCA GATTGTGTAC 180  
 ATAGNGCAAT GTTGGTTTTT TATAAAGTCT AAGCAAGATG GTTTTGTATA AANTCTGAAT 240  
 TTTGCAATGT ATTTAGCTAC AGCTTGTTTA NCGGCAGTGT CATTNCCCTT TGCACTGNAA 300  
 NGAGGAAAAA NNNGGNATTA AAAGGGTGC CAANTTGGCA AAAGGN 346

SEQ ID NO:5004

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05970

SEQUENCE DESCRIPTION:

GATCTGCTCG CCTCGGCCTC CCAAAGGATG GGATTACAGG CACCAGCCAC TGNGCCTGGC 60  
 TGGCCTCTGN TTTTAAATAA AACNTGACTA GAGTGACTCC ATCTTAAAGT GAGTAGCTAG 120  
 GCACTTACAA GGTTCATGCT TATGGCCTGA AAATAACCAC ATCCCAGGCT GACCACCAAT 180  
 TATAATTACA GANTATTAT GGCCATACAG NNCATGNTCC ACCAAGCCTG CAGAATGTCC 240  
 AAATNTCCTA AGAATGCAGC CNCCATTACT TANATATANC ATAAATGAGC ANGCTTAGGT 300  
 TGCAGGNTTA ATGGTCGTGG ATANCAGCAT TNGNCCN 337

SEQ ID NO:5005

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05974

SEQUENCE DESCRIPTION:

GATCAGGGTT ACATAGGTTT GGTAAATNA GTGCTGGAAA TNACTTTCT CCCAGTAGTC 60  
 TTAGGTCATG CTCAGTGAAC TTAAACTTTA TCCAGATATG GTTTTCCTTC AGCCTTTCTA 120  
 TTCCCTTTCT AGCCAGTGAA AGACCGCTG CCCTTTGACC TCAGCCCCCTC CAAGCCCCCA 180  
 AGTTTAAAC GCCACCCNCT GCCACCAGAA A 211

SEQ ID NO:5006

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05975

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTGGCCTC CCAGGGTGCT GGNATTGTAG GTGTAAGCCA CCAGGCCAG 60  
 GCTAACCTT TATAAGAAAT AAAGTCTCCT CTCAAAATTT AAA 103

SEQ ID NO:5007

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05976

SEQUENCE DESCRIPTION:

GATCCGTCTG GGCACGCTGG AGCAGGAGGC CACAGCAGAC GTGGAGTGGC GCTGGCACCC 60



TTACACCAAT ACCGCACGCA AGAGAGTCTT CCTGAGCACC GAGTGAGCAC ACTCACCCT 120  
CAGTCAGGAC ATGGACTTGG AACTCAGGAT TGGGCTGTCA TAGACAGACC CACCAGTAGG 180  
AACTGTCACA GAATGGCCTG CTGAACTGGG ATGTGGAAGT GTGGCGGGTG GAGAGGTCTG 240  
AATAAACCGT CTGTGTCATG GCAAA 265

SEQ ID NO:5008

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05978

SEQUENCE DESCRIPTION:

GATCATCAGC AATNCCTTCT GCACCANCAA CTGCTTAGCA CCCCTGGCCA AGGTCATCCA 60  
TGACAACTTT GGTATCGTGG AAGGACTCAT GACCACAGTC CATGCCATCA CTNCCACCCA 120  
GAAGACTGTG GATNGCCCCT CCGGGAAACT GTGGCGTGAT GGCCGCGGGG CTCTCCAGAA 180  
CATCATNCCT GCCTCTACTG GCGCTGCCAA GGCTGTGGGC AAGGTCATCC CTGAGCTGAA 240  
CGGGAAGCTC ACTGGCATGG NCTTTCGTGT NCCCACTGGC AANGTGNTCA GTGGTGGTNC 300  
NGANCGTN 308

SEQ ID NO:5009

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05980

SEQUENCE DESCRIPTION:

GATCCGATTT GTGGAGGATG AGAAAGATGA AGAAGACAAT NAGACGAGAA CACTTCTAAG 60  
GCGAGCCACT CCACACCCAG GGGAGTTAAA GCACATGAAA AAGACAGTGG AGAATTTACG 120  
GAATGACATG AATGCTGCTA AAGGACTGGA CTCAAACAAA AACGAGGTCA ATCATGCCAT 180  
TGACCGAGTG ACCACTTCTG TGTAGAGTTT CACCTCCAAG TTTTACCTCC TGTGTCTTCC 240  
TCTGTGTCG AGACGTTTCT GTCTGCTTNC CGGGAGCCTC ACGTGCTCCT TGTCTAACC 300  
AGCCCCCGNG NGCCATCTTT CCCGTGGAGT GTTGTN 336

SEQ ID NO:5010

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05981

SEQUENCE DESCRIPTION:

GATCGCTTTT NTGACTGTTC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTACTTTNTT 60  
GATTTGTTGG TATTGGGGAC ATTTAAAGG CTGAGTTATT TTTGAATGTC ATGTTTATGT 120  
CATAGACGTA GTTTTCGCAT CCTGAATTA AACTGCCTTA ACTCCTTNG TGGTATAAGC 180  
AAACTCCAT GGNCNNNGTC CTGGTATCCT TTTCTGTGT GGTGGCCCTG TGTCTCTGG 240  
CCTAGGGTTA AGTNTGCAAG ATAATACTC GTGAGTATTC AGAATGTNGT NCCTAATAAA 300  
TGCACTTGTN GTCTGTCTTC TTTTNN 327

SEQ ID NO:5011

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05982

SEQUENCE DESCRIPTION:

GATCAAGTTT TAAATCCTCC TCCTTCCCTT TTNCTGGAG TTTGAGGGC CAGAGTTTNN 60  
NTTTTNTTT TTGTTTTGT TTTCTGCTT GCTACTGTTT TGTGGTGTG AAAAGTGGT 120  
TAAACCTGAG ACTAAGTAA ACACCTCCTT GACCTTCTNG TTGCCTGTNC ATTTTGTGC 180  
CAAGGAAGTA GCTGCCCCAG TGTATGTCTT GCCTTCTCCG CGTCATTGTT GGAAGAGGAG 240  
AGATGCATCG AGCAGTCCCA GCTGCTTTC ATTTATAACG GCTTCTTTC AGGACCTGAC 300  
AGAAGTCAGG GAAGAGTCCC TGGGNN 326

SEQ ID NO:5012

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05983

SEQUENCE DESCRIPTION:

GATCATTGA CTGGGCTGGA GAACATCCTT TTACATGGCC NTCCCATGGA TGTGCTGTAC 60  
ATCTGCTTAA AAGAAAATAA TTAATTNAT GAGCGTCTTC AAAAGGACTC TTGGTGCAAC 120  
AGACTNAATT GGAAGTCAGC TTTCTAACT GTCAGTGCAC CAAGCTCTGC TGGAGGAGTG 180  
ACCAGACTCA CGATTGGTA TAGTGGGCT CTCAAGCATC TTCAATTGA ATGTACATGC 240  
TGCTGAGGAG CCGGTGAAGT CATCAGTTC GCACATCCCT TCTACCCTNC AACTGCATGG 300  
GAAGCCAAAG TNCTGGTTTT GAAGAN 326

SEQ ID NO:5013

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05984

SEQUENCE DESCRIPTION:

GATCTGGGGG CTAGCAGTGA GTACCCGCAT GGTATCAGCC TGCCTCTCCC GCCCACGCCC 60  
TGCTGTCTCC AGGCCTATAG ACGTTTCTNT CCAAGGCCCT ATCCCCAAT GTTGTCAGCA 120  
GATGCCTGGA CAGCACAGCC ACCCATCTCC CATTACATG GCCCACCTCC TGCTTCCAG 180  
AGGACTGGCC CTACGTGCTC TCTCTCGTCC TACCTATCAA TGCCAGCAT GGCAGAACCT 240  
GCAGCCCTTG GCCACTGNAG ATGGAAACCT NTCAGTGTCT TGGNATGACC CTACCNAGGT 300  
GGTGGGTCTC CAACANAGCC ACTTGTN 327

SEQ ID NO:5014

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05987

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTTG TTTCTTGCA TTAATGTAAG AATACTTTAA 60

ATCTCTAAGC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT AGTAGTAATG 120  
 TTTTATCCAT TTAGCATGTG TTTATNTNTC CATATGTNCT CAAAGGTGAC TTATTGGTTC 180  
 ACCTCAGTGA TATTACAGCT AAANNNTCA TTCATTAGCA AAAGGNAAG TGGTCTCAAC 240  
 CTAACATCAG ANGTGTTTCT NATTATGNTN TNATATTGCG TTGGANTATT GGN 293

SEQ ID NO:5015

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05988

SEQUENCE DESCRIPTION:

GATCTATACA GGTATGTCTG ACGGGACGCA GCACCGTGGG CACGCACCAA ATAGAGTTTT 60  
 TAAAAGAGAA A 71

SEQ ID NO:5016

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05989

SEQUENCE DESCRIPTION:

GATCCTNTTC TTTCAGCAGG TGAAAAATAA AACGCAGTTC AAATTCATG GTTTAATTT 60  
 TCANCTCAGA AGCACTCAAA AATGCAAAAT GTGATAATGG GCACTTGTTT AAAAGANTTA 120  
 GTGTATCCAG CCTTCACTCC AGCTGGTTAA AAATGTTGCA CTTNTCAGCA ACCCTACCAC 180  
 TTTCATCTGC TGAAAGGNCA NATGTGCTTG GTTTTACNAT TATGTAATCA CAACTTACTT 240  
 TCTGCTTGTN GTNGCTTAAA ATTATGTATT TGGTCTTTGG GCTGCAANTT GGTTTTATGC 300  
 TGGATTTGAT GNTNACTGGC NGNNAGTTTG ACCTTTGCTG NTATGGGGAA ANTN 354

SEQ ID NO:5017

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05991

SEQUENCE DESCRIPTION:

GATCGGAAGA GGGAGGAGAG GCAGTCTCTT NACAAAATAA AGTATTTTAA TTCATTTNTA 60  
 TTTATTAAAT NAAAAAACA TCCCATGGTG TCCCTNTTGT TTGGTGGAAC CTAATGACTG 120  
 TNGAAATAAA GTCCTGTNTT TNCCCTAAA 149

SEQ ID NO:5018

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05992

SEQUENCE DESCRIPTION:

GATCCAAAAA CCTCCACCAT AGAGACTGAT AAATTGTAGC TATTGAAGCT GTACTNCTTT 60  
 GTACATAGGT GCTTTGGGAG ACTCACTCTG ATTATTGTAA ATTNCTCAC TAGCTACCCA 120

ACATTAAATT CAAATAACAG AGAATTTCTA TTGTACAGCC TTGCAACTTT NCTTTAAGTT 180  
TAANCTTTNC TNNAAAATAA AATTTTAAGT GGCAAAAATN ATTATTAGAN GAGAAAANGT 240  
GTGCTCATT TTNANTATN 259

SEQ ID NO:5019

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05993

SEQUENCE DESCRIPTION:

GATCACCTGA GGGGAAAGGN TTGTNTCTCT CCTTTCTGTT GGGNGAGGGG GATGGGGGAC 60  
TTTTNTTGGT GGCTCCCACC CATATATCCC TCCTTNACCA TAGTACTCCC ACCCACTTCC 120  
ATCACCCATC CAATAAAATG CAGCCAGGTT TAGCCTTTGG CTTTGGTCAC AAA 173

SEQ ID NO:5020

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05994

SEQUENCE DESCRIPTION:

GATCTACCTT CTAGTTTACT TGCTCGGGAG AAGAACTGA CTCGTTTTAT TTAGTGCCTA 60  
TTTAGCGAGC CCAGAGTAAC GTACATTGT NCTGTTTCA ATTTGTGCT ATCGCAAATC 120  
ACAAAAAAC TGTTATCAAT TCACATTCAT CATCAGCAG AGACCCATTT CCTTGTGCTC 180  
CTGCCAGCTC AGGNTATNAT GTTCTTTTT TCATGTTTGC CAGTCTGTGA GGTAAGANGT 240  
CATATGCGGT TGTTTTAATT TGCAA 266

SEQ ID NO:5021

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05996

SEQUENCE DESCRIPTION:

GATCAAGGTG ATTCTGAAAG TTTTAATTTT TAATGTTGTA ATGTTATGTT ATTGTTAATT 60  
GTACTTTATT ATGTATTCAA TAGAAAATCA TGATTATTA ATAAAGCTT AATTCTCAA 120  
A 121

SEQ ID NO:5022

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05997

SEQUENCE DESCRIPTION:

GATCTAGTTG TATTCTCAT ACTAGCAATG AACAATTGGC AGTTGAAGTA AAAGCAA 58

SEQ ID NO:5023

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05998

SEQUENCE DESCRIPTION:

GATCGTAATA TCTCGAACAT TACATAGACA CTTAAACCT TTAGTTGTAT TTCATCAAAA 60  
 ATCTGTTTAT GCCCCACGTT GGTTCACAAA CATACTATGC TTTTNCITCG TGTATTTC 120  
 TATATNCATT TTNGTGTGTA TGTGTATGTC ACAAATATTG ATATGCCTGG TTGTTTATTT 180  
 TGGTNTGCTA TTATGCCTTT TTCAAAATAT AAAANTAAAC TNGTAANTNC TAACNAAA 238

SEQ ID NO:5024

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS05999

SEQUENCE DESCRIPTION:

GATCGAGACC AGCCTGACCA ACATGGTGAA CCCTGTCTCT ACTAAAATAC AAAAATTAGC 60  
 TGGGCGTGTT GGCACACACC TGTAATCCCA GCTACTCAGG AGGCTGAGGC AGGAGAATTA 120  
 CTTTAACCTG CGGGGGGAGC CTAGATTGCG CTACTGCACT CCAGCCTAGG CAACAGAGGG 180  
 AGACTCTGTC TCATTAAA 198

SEQ ID NO:5025

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06000

SEQUENCE DESCRIPTION:

GATCTTGTGT CAAGTTAACA GGAAGACTGC CCACAGATGA CACTGCATTT GTATCCCTGT 60  
 GGATGTAGAG TATTGGGAAG GCATTNTTT AGTTTCATGC CTCCAAACCA TGCATTGTCT 120  
 GTNATGTATC TGCCAGCCT TCTCAGAACT CAATGTTGTA CATTTTCCC TCTAGGACCT 180  
 GAATTGGTCT TGGAGGCAGC TTTAGAAAT CCTCTATGTA GTTCTGTCC ACATGCACTA 240  
 TATATNGGTT TCTCCNNGNN CCTCTCATGA ATCTGCTCGT TTCTCTACNT CTGGGTACG 300  
 N 301

SEQ ID NO:5026

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06001

SEQUENCE DESCRIPTION:

GATCCTGGTA ACTGTTCCAG GATTGCTCCA GGTTTGAGAT GGTATTGCTA AATTTAAAT 60  
 TAAACAAGAG ACCCAACAAC AGCTTTTAAA GTGTCTTCTA TNGCATTGTA TTTNNNTNAA 120  
 CTTGCCCCAA TGATAGAAAA GTCTTTTGCT GAAATNATTT TNATGATTTT GGTTTATCGT 180  
 TTATAAANG GAAAAGANAT ATACAAACTT TGACTTTGGT GACTTTGTGA AGGTTTCTTT 240  
 AAGATGTGCA TTCCTTTCTG CTTGCNCTCT AGTAAAGGNT TTACTACCGG GAAAAAAAAG 300

N

301

SEQ ID NO:5027

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06004

SEQUENCE DESCRIPTION:

GATCANGAAA AAGACAAAAT CTNTCAAAGC CTTCAAAACC AGGAAAAGAT AAGGAGCCCA 60  
GGAAAAGNAA AAGGTAAAGT TCGAAGAANT TTAACCATT TTNACTAGCG ACAGCAN 117

SEQ ID NO:5028

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06005

SEQUENCE DESCRIPTION:

GATCAGGAAT GGTGTGGATT GAGAACTTGT TACTTGAAGA AAAAGAATTT TGATATTGGA 60  
ATAGCCTGCT AAGCGGTACA TGTGGGTATT TTGGNGTTAC TTA AAAANNA TTTNNGGGAT 120  
AAGAGAATTT CAGCAAAGAT GTTNTAAATA TATATAGTAA GTATAATGNA TANTANGTAC 180  
AATGGAAAAN ACAATTATAT TGTA AAATTA TANCTGGGCA AGCATGGNTG N 231

SEQ ID NO:5029

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06008

SEQUENCE DESCRIPTION:

GATCATGGAA CAGAATCACC CTCTCCTGCA TGT TTTTNTT TCTGTCTCCT GCTTTNCTGT 60  
TCTTTTCCA CTTTCTCTAT GTGTGAGTTG ACTTGGCTGC CTGTAGCTTC ATCGTCAAAG 120  
CTGGTCCACG TGGGNTCAAC TTGGTGCTCT CACTCTCCTC CAGCATTGTT TTTGGCATCA 180  
AAGCTAGAAT TAAA 194

SEQ ID NO:5030

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06010

SEQUENCE DESCRIPTION:

GATCNTTTTT AAGAGCGTTT CCATACTATG NTTACATTC CATATTTNTA TGAATAATTT 60  
TGCATTCAAT AAACAACCAG ACTCAGAAA 89

SEQ ID NO:5031

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06011

SEQUENCE DESCRIPTION:

GATCTTGGAG AGTTTCTCCT TGTGATTTTA GTTCATAAGT ATGTCACCTT TCATTTTATA 60  
GNGTTCATCA TTGAGTAATG GATTAAGTGA AAATCCAGGA GTATCCATCT NCAGTTATGT 120  
NCTGAGGTGA TAATNCATCC AACATATTTN TNAGCATAAA TATNANGCTT CAGN 174

SEQ ID NO:5032

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06013

SEQUENCE DESCRIPTION:

GATCTAAAGC AGCCCTTTTT ACAGTCTAGT TAGGAGAGAG AAAATAATTG CAAATATCCA 60  
CTTAGAGGCA AAGAACAATT TTNATTATC AAAAAGGTTT CTGCACATTG TTGTGGCAAT 120  
ATTGTATCTG TTTAGAAAAT GGGCTTTTCC AAAAGCAAAC AAAGATAGGT TCCTCAGGTG 180  
ACCAAACTG AAAATCAATA TTTCCATGTT TCATTAATCA NGGCATAAAA TACAATTAAN 240  
GCAAAATATT TTACATTAAA 260

SEQ ID NO:5033

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06014

SEQUENCE DESCRIPTION:

GATCTCTGGA GGTCGAGGCT GCAAGTGAGT CATGTTCTGT TCACTACACT NCAGCCTGGG 60  
CGATAGAGTG AGAACCTGTC TCAAA 85

SEQ ID NO:5034

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06015

SEQUENCE DESCRIPTION:

GATCCGAAAC ATGACAACAG AGAGCTGCGT CCACAGGGAA CAAAGCCCTG ACCTNTCTCT 60  
CCACATTACC CTTACAAAAA CAGGCCCTCC CCATGAGAGA GCTACACGGC AGGGGCAGAC 120  
ACTGTGAGTA TAAGCTACTT TCCTCCCTGG AGTGCTCTAT GTGGGCAGAA CATGCTCTCC 180  
TTGCCTCTCC TGGAAGGTGT CTTCTCTATG GCCTGGCTAG AGCTGNAAAA AAGGGACACA 240  
CCCNACTTCG GTAAAAGAAA NTAGGGAAAG GCCATATACA NNGNCAGACT TTGTAGTTTA 300  
TTTTGTATTT TTTNTAAAT NNTTTNCACT TTTACATTA ANGNAGATT GN 352

SEQ ID NO:5035

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06016

## SEQUENCE DESCRIPTION:

GATCTTAATG GCAAGAAGGC CACAGAGGTA CTTTNCCTTN TTNAGCTCAG GAAAATATGT 60  
CAGGCTCAAA CCACTTCTCA GGCAGTTTAA TGGACACTAA GTCCATTGTT ACATGAAAGT 120  
NATAGATAGC AACAAGTTTT GGAGAAGAGA GAGGGNGATA AAAGGGGGAT ACAANNGATG 180  
TACAGAAATN NTTCTCTGGC TGGNCN 206

SEQ ID NO:5036

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06017

## SEQUENCE DESCRIPTION:

GATCTGGCCA TGTATATGGT AGCTGTGTTT TAATTTGAGA ATCTTGAGGG TAGAGCCACA 60  
AATTTCAATT CTNACATTTT CATTGCAAAA GTGACTAGAG AAAAAGAAAT CAGCTTAAAT 120  
GAGGTATTAA GTAATGTTTA GAGTCGTAGG TATTAAGTAG AATATAAATC CTTAGAAATT 180  
GTCTTTATAC CTTCAAAAAT TATNCTATGC ATTTNTCATA GANCTGTGAT TACAANGNNG 240  
TCTGACTACC ATGTCTTTAA ACATATGGCA TCTCTCATCT TTCCTTCCCT TATGGGGGCT 300  
ACATTTNGTN CCATTTTCCA GNAGTAGNCT TTAAGTTNCC GGTGCCNNNC N 351

SEQ ID NO:5037

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06018

## SEQUENCE DESCRIPTION:

GATCCTGAGA CTATNTGCAT GCTNCTNTCT AAATGATAAT TAANAGGAAA TTTCATGGAT 60  
TAACCATGG GTTTAATGCA GCAAGGAAAC TTACAATGTC CCTNTATATA TAACATGCAN 120  
CTTGTTTGG N 131

SEQ ID NO:5038

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06020

## SEQUENCE DESCRIPTION:

GATCCTNCAG GAGATTCAGC GTCTCCGCCT GGAACACGAG CAGGCCTCCC AGCCACCCN 60  
TGAGAAGGCA CAGCAGAACC CCACGCTGCT GGCAGAGCTG CGGCTGCTGA GGCAAAGGAA 120  
GNATGAAGTG GAGCAGAGGA TGTCGGCCCT GCAGNAGAGC AGGCGGGAGC TGATGNGTCC 180  
ANNTGGAAGA GCTGATGAAG TTGNCCNN 208

SEQ ID NO:5039

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS06021

## SEQUENCE DESCRIPTION:

GATCTGAGTG ACAGGGTCAA GTTCTCTTTG AAAACAGGAG CTTTTCAGGT GGTAACCTCC 60  
 CAACCTGACA TTGGTACTGT GCAATAAAGA CACCCCTAC CCTCACCCAC GGCTGGCTGC 120  
 TTCAGCCTTG GGCATCTTCA TAAATGGAAA 150

SEQ ID NO:5040

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06022

## SEQUENCE DESCRIPTION:

GATCTGCTGG GTTTAAGGA GTGATTTNCT TTCTNCCCCT TGAAGGGGAA AAAGCTATTT 60  
 CAATTGGTAC ATTTAAAGTC CCCCAACTAT GGGGAGGTAC CAATTCTGGA CANNNTGCCA 120  
 CTACAACAAC ACTAAACCTG AACTTTTCAA CTCCGTTGGT GGTGGGAGGC AGCGGGCAGA 180  
 AATTIACTGT TGGCCACTGN CAGGTCTATT TNATATTCA AAGGAATATT GGGTGCTGCA 240  
 TATAGNACT GAAGGGGTCA ATGNATTAAA CCTGTGATTA GGTGNTTTC CTGTCATTTT 300  
 TGAGAGACTA AAATNGTGGG GGGGCAGATG TNCANAATAC CTGGTACANG TTTTAAAAA 360  
 NTGGN 365

SEQ ID NO:5041

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06023

## SEQUENCE DESCRIPTION:

GATCTTNACC TTATTCAGTC AACTCCCTTT AAACCCCTGG CACTGAAAAC ACCACCTCGT 60  
 GTACTTACGC TGAGTGAAAG ACCACTAGAT TTTNTGGATT TAGAAAGACC TCNNNCAACC 120  
 CCTCAAAATG AAGAAATCCG AGCANNN 147

SEQ ID NO:5042

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06024

## SEQUENCE DESCRIPTION:

GATCCGTCCT CATTTTATTG GTGATGATGA ATGGGAATAA AATNAGGGGG CTGTCTACTA 60  
 GAGCCTGGAA TAAATATGCT GCTTTGTGGA TTTTAAA 98

SEQ ID NO:5043

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06025

## SEQUENCE DESCRIPTION:

GATCTGTATG TNAATATCGC CAAGCAGGAT ATCATGTTGT CCCTGGCAAA CCTGGTGAGA 60  
 CTCAACCAAG CCCTTTTCC CCCAAGCAAG AGGAAAATGG AATCTNTGTA TCAGTGTGGT 120  
 TTTGATGACA CTGTTAAGTT TNTACTTAA GAAAATTGGT TTGAATAAAA TGCATAAAAG 180  
 TTTATANTGC ATTNATTGT NNANNTGN 208

SEQ ID NO:5044

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06026

SEQUENCE DESCRIPTION:

GATCTTTGCC CACCTCTTCC TCAGAGCCCC CACTGAGGGG CCGTAGCCCT ATCTAGGGCT 60  
 GTGGAAGGAG CAGACTGGTT CCTAACTCTC TCCCTCCTCC TGCCACACA CATCAAAAGA 120  
 ATCTTCCCTA CACCCTTCTC TGCCTTTATT TTTTGATTG TGCAACTTGT AACTAGGTGT 180  
 TTATGGAGTA AAGGAGAATG GAAAAAGAA A 211

SEQ ID NO:5045

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06027

SEQUENCE DESCRIPTION:

GATCTTGTTT ACAGCAGTGC TTTTGTGAAC AATTATTTAT TTGCTGAAAG NGCTCTTCTG 60  
 AACTGTGTCC TTTTAATTTT TGCTTAGAAT AGAATGGAAC AAGTTTAAAT TTCAAGGAAA 120  
 TATGAAGGCA CTCCTNTTTT TTCTAAGAAG GAAGTTGCTA GATGATTCCT TCATCACACT 180  
 TACTTAAAGT ACTGNGAAGA GTATCTGTAA ATAAAAGGGT TCCAACCTTT TAAANAAGNN 240  
 GGAANAAACT TTTTGGTGCT CCAGTGTAGG GCTATCTTGT NNANAAANTG TCAACAAGGG 300  
 GGAAANGTAA GNCTGTCTNAG CTNGGGGATT GGTCACTTGN NTTAN 345

SEQ ID NO:5046

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06028

SEQUENCE DESCRIPTION:

GATCTTATAA ATTTCTGGG CAAGAGTGTA TGCATACAAA GTTTCACTN TTGTGAAATG 60  
 TAATTTTNC TTTTTTGCA NGGATGAGG TGATTGGAAT TGCTTTNACC ATGCTGCCTT 120  
 TATTCTCAA CTGGCAAAC TAGCATGTTA GGTGTATTAA CCTCATCAGT CTTGAAGAAC 180  
 ATGTGGCTCA TGAGTATAAC ACTTCTGTAG NGNNCNCNCCN NACANAAGTG AAGAATTAAC 240  
 TTCTCCTNCA GAACAAGTGC ANTTCAGAAG GCAAGCTCTG CATTCTACCT TGNTTGAN 298

SEQ ID NO:5047

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06030

SEQUENCE DESCRIPTION:

GATCGGGGAG CCACAGGGTG TCCAGACCCA GCGGGAGCCG AGGATTCAGG AGAATCTCCC 60  
 CAGTCAGCTT CAGAGGTGCC CACAGTNTGA GCTCTAGTGT CTNCCAGGTA GGGGGNCAAA 120  
 GCGGNAANCT GNCCGGGCCT NGGGGGTGCA AGN 153

SEQ ID NO:5048

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06031

SEQUENCE DESCRIPTION:

GATCAACATT CGCAATGCCC GGAAACACTT TAAGAAGCTG GAGAGAGTGG ATGGCCCCAA 60  
 GCACAGTCTC CTTATGCGTT GAATATTGCC AAATNCTCTT NCTGAAAATC CTGAATTGCC 120  
 TTTTNGTTT GCATCCTTTA TTTTNAATAT TCATAATGTC GTGTGCTTAA AAGTGGGCTT 180  
 TGAAGTGTGT GCTGCTTACT CCTNTCATCT TTCTCCCCGC TTCCCCAGTC TTAAACATT 240  
 GGACGNTATT TACTCAGCTA CCCAGTAGAG CTTGAAGCTG ACCTTTCTGA GAAAGTTGGG 300  
 TATGGTGGTA ACACTTAAAG TAGGTGGTTC CGTGTGGTGT TCTTCANTNN N 351

SEQ ID NO:5049

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06032

SEQUENCE DESCRIPTION:

GATCAACAAA TTGCTCAACC TGCAAAATCT TTGATTAGAC TTAGCCAGCC CATCTGGCCT 60  
 GCTTTGGGTT TAAAAAATAA AAAAANNTTT TTTTAACCNC ANAANTGGAA AAAGGGGAAG 120  
 GGNN 124

SEQ ID NO:5050

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06034

SEQUENCE DESCRIPTION:

GATCATGACT ACTGGGTGT CATTCAATG GACAGTGCTA TGAAATAAGT ATTTTGTAAA 60  
 NCAACGGAAA TAGTTTATAT CGATATTTCT GATTCAAATT TANCCATCCA ATTGTTTAA 120  
 TAACCTTACT GATTTTTTAC CTATATCACT TTNCTCTNAC ACTGNAANTA TTAGTTCTAN 180  
 TAGCATTATG NCANTTACCT ATGTTGCTTT ATGAANGN 218

SEQ ID NO:5051

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06035

## SEQUENCE DESCRIPTION:

GATCAATGCT GGCTTCCACG CCTGANTTCT ACCAAGTATG CCACACCAAA AAGGATTATN 60  
 AAGAAATTGG ACCTAGCATT TNTCGTCACA ATCCAGTGTT TGGAGTCATG TCGTAAAATT 120  
 GNCNCCNN 128

SEQ ID NO:5052

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06036

## SEQUENCE DESCRIPTION:

GATCTCATTG AGATTCCAAA GAGAATCATT TACAAGTTAA TTTCTGTCTC CTTGGTCCAT 60  
 TCCTTCTCTC TAATAATCAT TTAGTGTTC TCAAAGAATT GTCTACATTA CCCATCTCCT 120  
 CTTTGCCTC TGAGAAAGAG TATATAAGCT TCTGTACCCC ACTGGGGGGT TGGGGTAATA 180  
 TTCTGTGGTC CTCAGCCCTG TACCTTAATA AATTTGTATG CCTTNTCTCT TAAA 234

SEQ ID NO:5053

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06038

## SEQUENCE DESCRIPTION:

GATCTGCAAG GCATAGGCAA GCCTCTTAGA GAATCAGAAA AGTGATTGG AAGGAACTTC 60  
 AGCTGTTACT ACTTTGTTTA AGCAAATCAA ATGCTGTTCT TTAATGTTAC TGGACGTTTC 120  
 AAATTAAACA CAAGAAAACC TGAAG 145

SEQ ID NO:5054

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06039

## SEQUENCE DESCRIPTION:

GATCAACTGA AGACCCCAA AGGCCCTAC TTGATGGTTT TGAGGGGCAA CATTGACTCA 60  
 TTTGCCCCNT CCCTCTCGGA ATGTTGGACA AAGGGAATAA AATTGGGGAT ATGTCTACTT 120  
 CAAA 124

SEQ ID NO:5055

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06040

## SEQUENCE DESCRIPTION:

GATCTAAAAC ANCTTCAGAC TACCTANGAA ATANTTNNAC CAAATAAGAA ACAGCACTGT 60  
 GGAATAAAAT ATACCATTGT GAACATATCT GATGCTGCAA TGAAATGTAA AGTTCCTN 118

SEQ ID NO:5056

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06041

SEQUENCE DESCRIPTION:

GATCTCCTAC TCCATCCAGT CCTGAGGAGC CTTAGGATGC AGCATNCCTT CAGGAGACAC 60  
TGCTGGACCT CAGCATTCCC TTGATATCAG TCCCCTTCAC TGCAGAGCCT TGCCTTTCCC 120  
CTCTGCCTGT TTCCTTTTCC TCTCCCAACC CTCTGGTTGG TGATTCAACT TGGGCTCCAA 180  
GACTTGGGTA AGCTCTGGGC CTTACAGAA TGATGGCACC TNNNNNAACC CTCATGGGTG 240  
GTGTCTGAGA GGCCTGAAGG GCCTGGAGCC ACTCTGCTAG AAGAGACCAA TAAAGGGCAG 300  
GTGTGGAAAC GGCAAA 316

SEQ ID NO:5057

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06042

SEQUENCE DESCRIPTION:

GATCTATTTT TTTNCACTTG TATAACTTTG NAATAAATNC CTCATCCCTT AGACTAAGAG 60  
AGTGGGTGTC TGTGAAAATN GTNTTCTCCT TCATAATACC TAAATN 106

SEQ ID NO:5058

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06043

SEQUENCE DESCRIPTION:

GATCGAATTT AAAAGAACAA TGGAACCCTG ACTACGTTTC AACAAAAATA AAAGTNGTTT 60  
TTTTCCCTCC TAAA 74

SEQ ID NO:5059

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06044

SEQUENCE DESCRIPTION:

GATCTCTGGC GCTGGCAGAA GCAGAATCCT TCAGGCTTTG GCANGCAAGC NTGAGGACCC 60  
TCCCCTACCA AGGACCAGGA AAAGCAGCAG CTGCCTGCTC TCCAGCCTNT GGCAGGAACT 120  
CAGGGCCCTG GAGCTGCTGG GGCCAAGCCA AGGCCTNCCC TACCTCAAAC CCCAGCTGGG 180  
CCCGNTTAGC CCACCAGGCA TGAGGCCAAG GGCTCCACTG ACCAGGAGGC CGAGGTCTCT 240  
AACTCTTATN TTCCACAGGG TCCAAGAGTT CATCAGGACC NNNAAGAGTG AGTTNAGGGG 300  
GGGCAAGGNT TCTNGNAACA AAAGN 325

SEQ ID NO:5060

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06045

SEQUENCE DESCRIPTION:

GATCTGCCTN TAAAGCCAGT TTAAGAAGCA CTNATGANAA CACCTGGACT GTGTATAGNG 60  
ATTGCACATT CCTTATCCTT CAGCTNCAGG ACAGGTGGAG CAAATGN 107

SEQ ID NO:5061

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06046

SEQUENCE DESCRIPTION:

GATCTCAGAG CATTTCAATT AGGGATGCTC AAACGCAACT TTTTCTACTT CCCCATTTC 60  
GGTGTGAGAT GTAACCCACC TTNACCATAA ATTGGCTTTN NATAGTGCTA AA 112

SEQ ID NO:5062

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06047

SEQUENCE DESCRIPTION:

GATCACAACA TACAAATTCA ATTCAGTGCA TGCTTTAGGT GTTAAGCATG AGATTGTACA 60  
TGTTTACTGT TAGGTCCTTG CATCTGTGGT GCTAGGTGAG TATGAGAAGA TGTCAGGAC 120  
TGGACGTATT TTGTTGCCTA AAAAAAAAAAG GNTGTTTGTN GCGGTTTAA ATATGCTTAT 180  
TTNGTGTGTC NCNNCTACC TTTTACACAC TGTGCTTTG TGGGTTTGT TNGNATGTGC 240  
GTGTGTTATA CAGTNGTTAA ATTTCCNTGC AGAAAAATAA ATGTCCNGAA TTCTCAA 298

SEQ ID NO:5063

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06048

SEQUENCE DESCRIPTION:

GATCTCCCAG TGAGCCATCA CGATGCCCGN TTTCAAATAA ATNTTAATAT TGTCACCAGA 60  
AA 62

SEQ ID NO:5064

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06049

SEQUENCE DESCRIPTION:

GATCTNCTGC CATGATGCCT ATTTGGTGTN TTTCTAATTA AAATGAAATC ACAA 55

SEQ ID NO:5065

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06050

SEQUENCE DESCRIPTION:

GATCGCATCA TTGCACTCTA ACCTGGGCAA CAAGAGCAAA ACTCCATCAA A 51

SEQ ID NO:5066

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06051

SEQUENCE DESCRIPTION:

GATCTGCTGA AAGGNAAGCA AGAACTATAA GGAGGNTGTG TAGTTGCAAA AATGGCTCCA 60  
TCGGTAACTC AAGCTTCAGA ATGTTATGAC ATACAGAAAA TCAAAGATGC TGTGTCTTAG 120  
CATTGAGTAA TATGGGTGGT GCTGTCTGGT CAGATTCAGT NAACTGTTCA GAACAAAATT 180  
NCCTCTGAAA TNCNGTTGAG AAAGNCTGTN 210

SEQ ID NO:5067

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06052

SEQUENCE DESCRIPTION:

GATCAAGTCA GCATTTGGGG TCGGGATTTG GGCAGGGAAC TTTGGGGTGC AAATATCTGG 60  
TGAAACCACC AGAGAATTN TTTGTCAAAG TGACATGTAT AATTTAGTT GAGACGTGTT 120  
TGTGTATATA TGTGTATTTG CCTTTNTTTA GTAGCACGGT TATTTGCTAA AATAATTGTC 180  
AAAAAATTGC TCTGTCGGTC GGTCTTTGAT N 211

SEQ ID NO:5068

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06053

SEQUENCE DESCRIPTION:

GATCTAGAAT CTTGTCCTCA GGCTTCTAGG GGNTTATCTG AGTCTTTTAT CTAAGACAAA 60  
TGCAACAGTT TTCTTTTCAA ATGCTCAGAA AAATAGTGAT GATGATGATG ATGATGATGT 120  
TCATTGTAT ACATTACAT GCAACCACAG CATTGTTTT ATTATAATAC CTTAGCAATA 180  
ACTAATGAGA ACATGTTAGG TGATGTTAAA TAAATAATT TTTCCCAAA 230

SEQ ID NO:5069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06054

SEQUENCE DESCRIPTION:

GATCGCACGG ATGCAGCAGG AAGACCAGGA GGGGCCGCCT ACGTAGCCCC AGCTCCAGCC 60  
ATCCACCCCN CAGCCCTTTN CTNCAACGTC ACCANTAAAT TTNTTTTN 108

SEQ ID NO:5070

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06055

SEQUENCE DESCRIPTION:

GATCACTGTT AATGATTTGC CTGTGGGACG CTCCTGGGAT GAGGCTCTGC GGCTGGTCCA 60  
NNNNTTCCAG TACACAGACG AGCATGGGGA AGTTTGTCCC GCTGGCTGGA AGCTGGCAGT 120  
GACACGATTA AGCCCAACGT GGATGACAGC AAGGAATATT TNTCCAAACA CAATTAGGCT 180  
GGCTAACGGA TAGTGAGCTT GTGCCCCTGC CTAGGTGCCT GTNCTGGGTG TCCACCTGTG 240  
CCCCCACCTG GNTGCCCTAT GCTGACCCAG GAAAGGCCAG ACCTGCCCCCT CCAAACCTCCA 300  
CAGTATGGGA CCCTGGAGGG CTAGGCCAAG GNCTTTTTN 339

SEQ ID NO:5071

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06056

SEQUENCE DESCRIPTION:

GATCACAACC TCANCNAAGA CCACGANGAA GCCCNCAACA GCCACGCCCA CGACTGCCCG 60  
GACGAGGCCG ACCACAGACG TAAGTGCAGG TAAAAATNGA GN 102

SEQ ID NO:5072

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06057

SEQUENCE DESCRIPTION:

GATCGCCTTA ATACCAGAAA TGATTAGAAG TGCTGATTTA GATTCAACAA ATACCATATG 60  
TCCTTATCAT TTTTGTGAAG AAGAAATTGG TTAAGTCCTA ACTTTCAATG TGTACCCAAA 120  
TACTTGTATT TTATGCTTTT NATAAATGT AATTTTCAGC ATTANTACAC ATCCGATTAT 180  
GCCTTATTTA TATATGGNGG ANTAAAGGTT ACCATGTTTA TACCTGTAA A 231

SEQ ID NO:5073

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06059

SEQUENCE DESCRIPTION:



GATCTTGTT TCATGTGTTT TTGAAAGTGT TATTGTTTAA AAAATGAAAA AAGCATATNT 60  
 GCTAAAGAGC TGTCAGGTTT TCATTACTGA CTCTGTANAA TACACTGNTC TTTGTGTACT 120  
 GTGTGTTATT TTGCCAGCT NGCTGCATTA GCCTTCAAAN GTATTGGGA AACCTNAAGG 180  
 ATGAACCTAC AGTTTCTNGC AAAGGTACCA TTNCCTTTCC TGGGGGTANT TTNGGTCCCN 240  
 GTNAACTGGN 250

SEQ ID NO:5074

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06060

SEQUENCE DESCRIPTION:

GATCCTCGCG GGCCTCGGAG AATTCCCCCA CTGCCATGCC CTCCCCCAG TACCAGTGCA 60  
 CTAAGGCGCA CTTGGCCGAA CTTATGGTCC AGGCAGGCC AGGCCTCCGT GATGGCCGTG 120  
 GTGTGCTCA GCATGCACAC CGNCCGCTGC ACTTTGGCCA GGTCTCCAC AGGGACCACC 180  
 GTGGGGGGCT GGTAGTTAAT NCCCACCTGT CAGAGATGGG CAGCATAGAA TGAAGTTTAT 240  
 ATTGGGCTCA GAAATGGGGA GCTCATTAAA AATCAGAGCT TGTGGNACCA GTTNCAAA 298

SEQ ID NO:5075

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06061

SEQUENCE DESCRIPTION:

GATCACTGTG TCAATGGAT GGGAAATNTT ATNTTAATAT AAACAGTAAA ATAGCATTGT 60  
 TTCACTTGC AGCTTTNAAA 80

SEQ ID NO:5076

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06062

SEQUENCE DESCRIPTION:

GATCTGTATG TNCAATATGG TAGCTACTAG CTACATACAT CTATGAGCCA GACACTTAAG 60  
 CACTTGANGT TTGGCTACTG CACATTGACA CATGGTGTTA GTAAAANCAT AACTGGATA 120  
 CACTGGATT TTGNCTTAG TATGGAAAA TATATTANGT ACCTCANTTT AAAAATACTT 180  
 ATTACATGTT AATATTTTGG TTGTANNNNN 210

SEQ ID NO:5077

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06064

SEQUENCE DESCRIPTION:

GATCATGTTG TATTNATTT TACTTATTTT TTTTACATTT CCCAAGGCTC TGTCATCCAC 60

CTTTTCATTA AATCATTCTA CCAATCTCAA A

91

SEQ ID NO:5078

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06065

SEQUENCE DESCRIPTION:

GATCAATGTA AATCCTCACC TGCCCTTTGA AGAGCCAATA AGGGCATCTT TGTCTTTAAA 60  
TACAGCAAAT GTTATTCAGA TTTTGTACTT GTCTATCTGT TTACCTCAGT GTAGATGATA 120  
TGAGGATGGN ATAACATATGT AAATTGTTTT TGAATAAAT TTGTTTCCCC ACAACTTTTG 180  
AAGGTTTTAT TTGTNGTTGT TATTACTAGT TCAGTCCCAA ACTNACCCTG TCCTTTTCAG 240  
AGAGCTAATG GCCATGCTTT NCTTCAAAGG AAAGAATAAT TNATTGGAA TGANAGTGGG 300  
GATTACTTTG CATAANN 317

SEQ ID NO:5079

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06066

SEQUENCE DESCRIPTION:

GATCTTTATT CTAACCTTTT TTTGTAAAN ATATCTATTG ATTTCCATAT GCAATAAACC 60  
TTTTTTTCAG AGAAA 75

SEQ ID NO:5080

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06067

SEQUENCE DESCRIPTION:

GATCGCACCA CTGCACTCCA GTCTGGCGAC AGAGTGAGAC TACATCTCAA AAAAAAANGC 60  
CGCAATTTTN CATTGNTTC ANCAGANCTC TGCCATTCTA AACATTTCTA AACTTTTACT 120  
CTCAATTNCT GTACTTAAN 139

SEQ ID NO:5081

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06068

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTNCTGT TACTTAAGTG ATTGCACTTT TCTCAAATTG 60  
AAGTTTAATG GAATAATAGT TCTCAGGATA GTATTTTGTA AATAAAGATG GNCTTGAATA 120  
TGAAA 125

SEQ ID NO:5082

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06069

SEQUENCE DESCRIPTION:

GATCCTACCA TGGCAAGAAG AGCTTCGAGA CTTTCTCTCA CCGCCGCTCT TGCCTGGTGA 60  
GGCCTCTAAT GAATGATGAA GGCCTGAAGG TCAGATACCC CCCGAGCCCG GCCAAGATGA 120  
CCCAGCACTG AGGAGGGGTT GCTCCGCCTG GCCTGGCCAT ACTGTGTCCC ATCGGAGTGC 180  
GGACCACCNT NACTGGCTCT CCTGGCCCTG GGAGAATCGC TCCTGCAGCC CCAGCCCAGN 240  
CNCANTNCTA TGNTGACCTG CTGACCTGTG CACACCCNAC TTTN 284

SEQ ID NO:5083

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06070

SEQUENCE DESCRIPTION:

GATCTAACCA TGACCTGTTT CACGTCATTC ACATTCAAAA TGAATGAAGG GATGANCATT 60  
TTCTCTGGTC ATTTTTTATT ATTTATACCC TTTTGCAAAT NCTAGTAGAG AATGAAGTGG 120  
AGGAATAAGT TATAAATGAA CAGTGGCTTA TGACTCCAAG AGTTAATCGT GTTATTTTGG 180  
TAGCTGTCTG TGTAGGTGTG CATGTNGTTG CGAGTTTGTA TTGNGNTTTA CAAGCAAAAN 240  
TTATATNATG NTTCAACTTT CTGAAAATGC TTNTAATTTN 280

SEQ ID NO:5084

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06071

SEQUENCE DESCRIPTION:

GATCATAATA TGAATNTCCC ACTTATTAAT AGCCTTTTAA TAAATATATA ATTAATTTCA 60  
AA 62

SEQ ID NO:5085

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06072

SEQUENCE DESCRIPTION:

GATCTATAAT CACCAGTGCA CTCACCCTG GGTGACAGAA TAAGACCCTG GCTGAAA 57

SEQ ID NO:5086

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06074

## SEQUENCE DESCRIPTION:

GATCTCAGGA TTNAAGCACA GTGCCTGGCA TACAGCAGGT GCTCAATAAA TACTTATCAA 60  
ATTGGAAA 68

SEQ ID NO:5087

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06075

## SEQUENCE DESCRIPTION:

GATCAAGGTT TAGTTTAACT TCCACTGTTA AAATAAAGCT TACATAGTTT TCTTCCTTTG 60  
AAAGACTGTG CTGTCCTTTA ACATAGGTTT TTAANGACTA GGATATTGAA TGTGAAACAT 120  
CCGTTTTCAT TGTTCACTTC TAAACCAAAA ATTATGTGTT GCCAAAACCA AACCCAGGTT 180  
CATGAGTATG GTGTCTATTA TAGTGAACAT GTACTTNGAG CTTATTGGTT TTATTCTGTT 240  
ATTAGATNTT TCAGGGTGTA AACANGNNN 269

SEQ ID NO:5088

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06076

## SEQUENCE DESCRIPTION:

GATCGGCAGG GCAGGAATCT GAGCGCTGGC CCCGTGGTGA GGCCATGTTT TCATAATCAG 60  
GCTCCAGCCA GAAAAATAAG AAACACCGCA ACAGGCTTCA GTATCAGGGC TGAAACTGCT 120  
GGATGANTAA ACTATTTATT AAAAACGGAA A 151

SEQ ID NO:5089

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06077

## SEQUENCE DESCRIPTION:

GATCTTGGCT TAATTTAATG TATTAATCTG TTTGTGCAA CATAGTACCA CCATTAAAA 60  
ATGTTAGGGA GATGAGTTGC AGTTTTATA ATAGATTTT TTAAAGTTT GGTATTGTAA 120  
ANCATTCACA CCTCTGTCCC TCAAANTGN TAATTACGGT TAAAGTGCAG TCATTGTGG 180  
NTAGAATCTT GTTTNGTTGC TNCCATTATT GGGGTCCNCC NAAGGAATTG AGGAGAGGNC 240  
CGAATAGAGC CCAATTCNTA TAANGAN 267

SEQ ID NO:5090

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06078

## SEQUENCE DESCRIPTION:

GATCTCAGGG AAAAATTTTA ATCACTGTGT ATAATGATAC TGAACCTTGA TTAATAACAG 60

AAATTCAGGA TGTAAGCCA CAGAATGGGN TTTATTAATG TGGGATACCT CAGACTGTTT 120  
GTTTCTTTC TGGGNAGCAA AGTGTGTTCT ATAATGAATA AATATAGAGT GGTTTTTAAA 180

SEQ ID NO:5091

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06079

SEQUENCE DESCRIPTION:

GATCTTCCTG GNACCTGAG GGTGTCCTC CAGCAGGGGC TTCTTNGACC CCTGTCTGAG 60  
GGGTCGCGTC TTAGTGGGCG GGATTCTTTT CCCTTTGAAT AAAAATGGAT TCAAACCCAA 120  
A 121

SEQ ID NO:5092

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06080

SEQUENCE DESCRIPTION:

GATCTGTNTT GTTCCTGCAG CAAAAATCCT CTATGGACAT AGGAGGTGCT GTGTCCCATG 60  
CCCTCTTGCC CTGNCAGTGT CCCATGGGCC CCCTTCTGCT CCCTGCCCCC TCCCTGCTAC 120  
TGCTGATGCA CTGTCTCTC CCTGCAGCCC CTGGCTTCN AGCCTTCCTC CTGACCCCTT 180  
CCAACAGCCT TGGAAGTCCA GGTGCCACCA CCCTNTGGGT CGGACACTGG GACCCANTGG 240  
NCCAGTCTTG GNTGCTGNTT ACCCCTAGCC TTGATGNCTG CCCAGGGGAC CCCNAGCCCN 300  
CTTNGTTGN CNTGCAGCTT TAACAGAGTG AACCATGTGT ATTGTACAGG CGGGGGTTGT 360  
TAATTGNAGA AAACNNAN 378

SEQ ID NO:5093

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06081

SEQUENCE DESCRIPTION:

GATCACACCA CTGCACTCCA ACCTGGACAA CAGAGCAATA TTGTGTCTCA AAAAATAATA 60  
AATAAATAAA TAAATAGTAA A 81

SEQ ID NO:5094

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06083

SEQUENCE DESCRIPTION:

GATCACCCGG AAGTTCAGGC TGAATTCTGA AGGCAAACTT GAGCAGACGG TCTCCATGGC 60  
AACCACGACA CAGCCAATNA CTCAGCATCT TCACGTCACC TACAAGAAGG TGACCCCGTA 120  
AACCTAGAGC TTCTGGAGCC CTCGGGAGGG CCTGGCTACT GTGCCTCAAC GGTTGCGCTC 180

CTCAACAGAC AGTCCCTGCG GCAGAAGTGG GTGTGGCCGT GAGCCTCTGC AGGCTCAAGA 240  
 GTGTTGTCCA GATGTTTCTG TACTGGCATA GAAAAACCAA ATAAAAGGCC TTTNTTTTAA 300  
 AA 302

SEQ ID NO:5095

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06084

SEQUENCE DESCRIPTION:

GATCTGACTT CAGTTGTGCA GATNACAGCA TGATAAATGA GTCGGGACCA TCAAA 55

SEQ ID NO:5096

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06085

SEQUENCE DESCRIPTION:

GATCAACAGA TGCTGGCAGA AATGGCTGTN TCCCTGGCCT TGAGAAGCAG ATNCAGCTCC 60  
 CTGTCCCCAG AGGCTACAG TCATATGGTA CCNCCACAGN CTCGCTTGGN TCGCTACAG 120  
 GAGGCGGCGT CANGGAAGCT TNCTN 145

SEQ ID NO:5097

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06086

SEQUENCE DESCRIPTION:

GATCTCATGA GAATTCACCTC ACTATTATGA GAACAGCATG GGGAAAACCN CTCCCATAAT 60  
 TCAATCACTN TCCTCTCTCC ACACGTGGGG ATTACAATTT GAGACAAAAC CTGGGTGGGG 120  
 ACACAGAGCC AGACTATATC AGGGGGCTTA TGTTTATCCA NTTGTNATGG CCTCACTTNT 180  
 TGNAAGACT GTNCTNNCN 199

SEQ ID NO:5098

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06087

SEQUENCE DESCRIPTION:

GATCACAGAC TGTAGAGTTT TGAAAAGTCA CTTTTATTTT NAATTATTTN ACATATGCAA 60  
 CATGAAGAAA TCGTGTAGGT GGGTTTTTTT TTNAATAAC AAAATCACTG TTAAAGAAA 120  
 CAGTGGCATA GACTCCTTCA CACATCACTG TGGCACCAGC AACTACTTCT TTATATTGTN 180  
 CTTTCATATCC CAAATTAGAG TTTACAGGGN CAGTCTTCAT TACTTGTAATAAANTATG 240  
 ANTCTCAA 249

SEQ ID NO:5099

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06089

SEQUENCE DESCRIPTION:

GATCTGCAGT CCTGCCTCTG CCACAGTCTC TCTGTTGTCC CCACATCTAC CCAACTTCCT 60  
GTACTGTTGC CCTTCTGATG TTAATAAAAG CAGCTGTTAC TCCCACAAA 109

SEQ ID NO:5100

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06090

SEQUENCE DESCRIPTION:

GATCACGGAC GTGCAGCTCG CCATCTTCGN CAACATGCTG GGCCTGTCCG TCTTCTTGCT 60  
TGTCGTTCTC TATCACTACG TGGCCGTCAA CAATCCCAAG AAGCAGGAAT GAAAGTGGCG 120  
CTTTCTCCGN CCCAGGGTTC CAGGACATAG TCTGAGGCAA GATGGAGGGT ATGTGGGGCC 180  
TTCACACTTC ACTTCATCCC TTCTACCCAT CACANCATAC AAAGCANCTA CACCTGGATT 240  
TTTCCAAACA ACTTTTATTT CCTCAGAGTC NGNNGNAATN CTATGGNNCA AGANGCTGNC 300  
ACTGAATAGG GCCNAGTATA GGGGCTTGCT TTTCTACTCT N 341

SEQ ID NO:5101

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06091

SEQUENCE DESCRIPTION:

GATCTGGTAC CGCAGTAGCG CCGCCGCCGC CGCCGNCGGA GCCTGTCGTC GTCCTGTCCC 60  
CAGCCTNCTT GTGTCCCGTG AGGTTGTCAA TAAACCTGCC CTCGGGCTGC CGGCAA 117

SEQ ID NO:5102

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06092

SEQUENCE DESCRIPTION:

GATCCAAAAG GACTCATCTA AAACACAAGT TGGGTAGAGG AGATAGGTGA GTACTATTAT 60  
ATTATGTTCA TGGAAATNA GTTCATGGGC TTTCCTCTAA TTTTATTTT AAAAATAAAT 120  
GTAAATATTA AATAAAATTT TTAAATGAA A 151

SEQ ID NO:5103

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06093

SEQUENCE DESCRIPTION:

GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTTC 60  
GNAATAAAC TACTCTGAAT ACTAAA 86

SEQ ID NO:5104

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06094

SEQUENCE DESCRIPTION:

GATCTAATCC GTNTCCACAC TGTCCCAGGG AATCCNAGGT CTGCCCTGAG CTCCTGTGT 60  
CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120  
GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTTGTNT TGGGTGGCCA 180  
GGCTTAANGT TTAAAGGCAT AANGAAAANN 210

SEQ ID NO:5105

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06095

SEQUENCE DESCRIPTION:

GATCATATTG GTCATGTCTA TTGGTGTATT ATTCAGTAT CACCAATGTT TTCAGAAATA 60  
CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACTTATAG 120  
ACTCAACTAT GTATCTGTAG TTTTGGGAA TGGGGTGGTG TTTTNNCTT TGTGTTGGGA 180  
AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTTAAAA AANNNCANN 240  
NN 242

SEQ ID NO:5106

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06097

SEQUENCE DESCRIPTION:

GATCTGCCCT TGGCCTCCCA AAGTGTCGGA ANNACAGGCA TGNGCCACTG AGCCTGANCC 60  
ACTTTAGCTA TTTTNAAAAA TAGGACCTAT TGTTTGGAT TACTATCTGA GAATTTCATG 120  
GATTCACCTC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180  
ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219

SEQ ID NO:5107

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06098

SEQUENCE DESCRIPTION:



GATCTATTTT TTGGGCTTTT AATATTCTGT TCCATTGACC TATNTCNCCT NTCTTTTACC 60  
AATACCGCAA CATCTTGGTT ACTGTAGCTT CACGGTAAGT CTAAAACTT GGATATTGTC 120  
AGTCCTCAA CTATGTTCTA CTCCTTCAAT ATTGTGTTGG TTATTCTGAG TCTTGNGGG 180  
TCTCCATATA AATNGTAGAA TTAGAAAAA AANNGNGGGG GGGANN 227

SEQ ID NO:5108

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06100

SEQUENCE DESCRIPTION:

GATCAGTTTG GACTCTGTAA CTCATAGGTG CATTCTTTT TTCTTTGGTG TCTCACAAAT 60  
NACCCAATTG TTGAATAAAA CTATAAATAT GTTAATACCA GCTTTTCCA ATAAATAAC 120  
AAATGTTACA TCAA 135

SEQ ID NO:5109

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06101

SEQUENCE DESCRIPTION:

GATCTNATGG GTTAAAAAGN GCGGCATTTT CCTCCNCTTT CTCCCTCTCC TGCACCATGT 60  
TAAGATGTGC CTGCTTCCC CTTTGCTTC GACCATGATT GTAAGTTTCC TGAGGCCTCC 120  
CCTGCCATTC AGAACTGTGA GTAAATTAA TCTCTTNCCT TTATAAA 167

SEQ ID NO:5110

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06102

SEQUENCE DESCRIPTION:

GATCTTCTGC CACCATCAGG GNCAAACGGG TGCAGGAGGA AAGTCACTGA TGCCCAGATG 60  
TTTGCNTCCT GCACAGCTAC AGGTCCTTAA NNAAGTNT N 101

SEQ ID NO:5111

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06103

SEQUENCE DESCRIPTION:

GATCTGTGGC TACTTTCACA CCACAACAGA GTACCATGGT TCTGACAGAG ACTAGGAGAC 60  
ACAGTCTAAA TGACTTCTGA CCTGGACCTT TACTGAAAAT CCTGCCAATC ATTCTGTTGG 120  
CAAGANTGAT GTATTACTTT TAGCAATAAG AAACAAGTAA CCTTGCAGA AA 172

SEQ ID NO:5112

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06104

SEQUENCE DESCRIPTION:

GATCTCCAAA GCTGTCCTCT GCGTCCAGG AGTGCCTCTT ATGTGAGTCC TAATAAACTC 60  
ATCTATTAC CAAA 74

SEQ ID NO:5113

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06105

SEQUENCE DESCRIPTION:

GATCTNTTCC CACCCATAAA AAGCCCAGAG AACAAAAAGT TGGCCCAGGA AATGCAATTN 60  
GGAAGCTGAA GAAGATTATA GTATTTNTNG CAGTCAAGAT TTGGAAAGTT ACCNACTAAG 120  
AAGCTACAAT ATNN 134

SEQ ID NO:5114

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06107

SEQUENCE DESCRIPTION:

GATCTTGAAA TNAAACTAAG ATTTTCCTGG GGAAATGTTT AGATACAGTT TTGTGAACTG 60  
TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTTNATNTC CTGCAAATTT AGGAACATAT 120  
TTCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCCTCA TTTGGNATTT NGGCAATATA 180  
TGNGAN 186

SEQ ID NO:5115

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06108

SEQUENCE DESCRIPTION:

GATCTTTNTG ACTAGAGTTA GTGTCCTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60  
TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120  
ATGCCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180  
CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240  
TCACCCCTTG CCCAATAAAG GNCAAGNNCT TCAAA 275

SEQ ID NO:5116

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06109

SEQUENCE DESCRIPTION:

GATCGAGTGG TCTGTGTTCC TATTGCTGGT GGGGTGATAG GGTGGGCTAA AAACCATGCA 60  
CTCTGGAATN TTTTGTATTT TCTCCCAGTA AAGCTTTTCT TCTCCCGAAA AAAAAAAGA 120  
AA 122

SEQ ID NO:5117

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06110

SEQUENCE DESCRIPTION:

GATCACAAC TACAGCCTGC AGGCCAAATC CAGCCCACAG CCTGTNTTTG TAAATAAAGC 60  
TTTGTGGAN CAAAGCCACA CCCCTTAATC TAAA 94

SEQ ID NO:5118

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06111

SEQUENCE DESCRIPTION:

GATCTGAATC CAGNTCATTT GAGGGAACCC CCAAGGTTCT CTGGTTGTGG CCTCTTGAAT 60  
AACCTCTCA CATTTGGAAA 80

SEQ ID NO:5119

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06112

SEQUENCE DESCRIPTION:

GATCTATTAT CTAGTGCAA AGCCTGGCTT TGNTTGNAA TTTTGTA AAA ATTTCATGGC 60  
ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCTGAAG AGAGCTGATG GCAAGTNTTG 120  
TAGTCATTTT GATTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 180  
CCAAGCTGGA ATTTATCTAA TCTATTTTGG TGTTTAAAAA AGCTGTACCT ACCAAATAAA 240  
TAAATAGTTT ATAAAATGTA TTACTTAAGG TAAA 274

SEQ ID NO:5120

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06113

SEQUENCE DESCRIPTION:

GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT 60  
GGAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 120  
TGGCATTTAA CGGATGCTGC CCTGACTGCA AGGTGCCCCG CGACGACTGC CCGCTGGTGT 180

GGGGCCAGNG NNCCCACTGC TTCCACATGC ATTGCATCCT CAAGTGGCTG CACGNACANC 240  
AGGNGCAGCA GCACTGNCCC ATGGTGCCGN CAGGAATGGA AGTTCAAGGA GTGAGGCCCG 300  
ACCTNGNNTC TAGNTGGGAG GGGNATNCTG AAGACTTCTT TNCTTNATTN 350

SEQ ID NO:5121

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06114

SEQUENCE DESCRIPTION:

GATCTTATTC AGTCTGCTGN TTTGTATAGT GTGATGACCC TAGTAAGCAC ATATTTGGTA 60  
GCCTTTGCAT ACAAGANTGT GAAATTTGTT CTCAAGCACA AAGTAGCACA GNAGNGGGAA 120  
GATGTGTTT CCAAAGAAGT GACTCGAAAA CTTTCTGAAG CTGATAATAG AAAGATGTCT 180  
CGGAAGGAGA AAGATGAAAG ATTCTTGTGG AAGAAGAATG AAGTNNCINN ATTATGAAGC 240  
TACANCANNT TCCATCTTCT ATAACAACAC TCNGTTCCTG GTCGTNGTCA TTGTTGCTTC 300  
CTTCTTCATA TTGAAGAAT TTCAACCCCA CAGTGAAC TA CANATTGTC CATAAGTTGN 360

SEQ ID NO:5122

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06115

SEQUENCE DESCRIPTION:

GATCTGGTCA CACCTAAAGT CATTAAAATC ACTGAAATGT TTAGATACAC AGCCCAATAA 60  
ATTCTCTTTA TAAACACAA GCAGTAAA 88

SEQ ID NO:5123

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06116

SEQUENCE DESCRIPTION:

GATCAGGCCA CATAAGGAAC AGGGGAATTC CAGGGGTGGG ACACAGCTNG GGGAGTCCAG 60  
ACCAGGGCAG GGAAAGGAGA CTCACAAGCC AAACAGAGCT GCTTTGGGGA AAGTTCTTAT 120  
CAGCTGGTGC TGCTTCCTGA GCCATATGCC CATTCTCTCA GCTGTACCCN NNNNNNN 177

SEQ ID NO:5124

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06117

SEQUENCE DESCRIPTION:

GATCTTGGAC CTCCCAGCCT CCAGAAGTGT GAGAAATAAA TGTGTTTGT TTCAGCTAAA 60

SEQ ID NO:5125

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06118

SEQUENCE DESCRIPTION:

GATCTGGCTG ACTCACACGC GACTGGAGAA TAAACAAACA GCAACATAAG GAAA 54

SEQ ID NO:5126

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06119

SEQUENCE DESCRIPTION:

GATCTCCCAT GGGTCACCCA GGTCTATGC CTCCGCATGG TATGCGTGGA CCTCCTCCAC 60  
TGATGCCCC CCATGGATAC ACTGGCCCTC CACGACCCCC ACCCTATGGC TACCAGCGGG 120  
GGCCTCTCCC TNCACCCAGA CCCACTCCCC GGCCACCAGT TCCCCNTNGA GGCCCACTN 180  
GAGGCCCTCT NCCTCAGTAA ATTCACATT TNCTTCCTNC TGTTACATT TNCNAATATN 240  
TTTTCTATTC CTTGGACCAA TCAGAGATGC TGTAGCTTNC TTGGGGCAAA GGGTACTAAA 300  
TCNCNTTTNA GCACNN 316

SEQ ID NO:5127

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06122

SEQUENCE DESCRIPTION:

GATCCTGTTC CTGTCACCAT TGCTCTCGAT TCACTCAGCT GGCTGCTACT TCGCCTTCCC 60  
TGCACCACAC TCTGCCAGGT CCTGCATGCT GTGAGCCATC AGGACTCTTG TCCTGGTGAG 120  
ACCCCTCCTT CATTGTTTCC CCTCATACAT CTCCTCTGC CAAGGAGTGT GCCCCTTTTC 180  
CTTTCTACCC TAGAATAAAC ATCTGGGTTC TCCAGTCAGA AA 222

SEQ ID NO:5128

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06123

SEQUENCE DESCRIPTION:

GATCGACTGG AACAAAGTGA CCGCTGNGTA AAACACTGC CTTGCCACTC ACTGTTGTAT 60  
ACATTCTTA TTTACGATTT TCATTTGTTA TATATATATA TAAANATACN GTATANANAT 120  
GCAACATANN 130

SEQ ID NO:5129

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06125

## SEQUENCE DESCRIPTION:

GATCTTAGAG CTA AAAAGGA CTGTAAAAAT TACCCAGAAC AGCGTCCTCA GACTTAACCT 60  
 TCTGCAAGTT ATGTCTGTAT ATAAGANGAT TCTAATTGCT AACTGTTTAT ACTTNCTGN 120  
 ATAAAATAGT TGTTTCTAAT TAAAANGTAG CCAAGCTAAA 160

SEQ ID NO:5130

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06126

## SEQUENCE DESCRIPTION:

GATCTTCGTT CAGGGCATCA TCTGGGACAT CAACAGCTTT NACCAGTGGG GAGTGGAGCT 60  
 GGGAAAGCAG CTGGCTAAGA AAATAGAGCC TGAGCTTGAT GGCAGTGCTC AAGTNACCTC 120  
 TCACGACGCT TCTACCAATG GGCTCATCAA CTTTCATCAAG CAGCAGCGCG AGGCCAGAGT 180  
 CCAATAAACT CGTGCTCATC TGCAGCCTCC TCTGTNACTC CCCTTTCTNT TCTCGTCCCT 240  
 NCTNCCCGGA GCCGGCACTG CATGTTCTTG GACAACACCC AGAGCACCCT NTNGTTGTGG 300  
 GNTTTTGNNC NNCGAGCCCT TTAGCNGGGA ANGNCTTGGT CTTCNCCAN 349

SEQ ID NO:5131

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06127

## SEQUENCE DESCRIPTION:

GATCCTCAAG GACCTGTAAT TTTTGGTAT TTAAATTAA AATAACATTA TTTTATTTT 60  
 GANTTTTTTT CAAACAGTAA GAATAATATA TCAGCAGCAT GTATCTGCCA ATCATATGTA 120  
 ATAAATTNTT TATTTTGCCA AAACCAAA 148

SEQ ID NO:5132

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06128

## SEQUENCE DESCRIPTION:

GATCTAATAC AAGANCTAGC AAAGCAAAAG TTTTGCAAG TGACAGCATA AAGACGGANC 60  
 ACAACAAATC CTTCTGNAG TGAATTAGGA AACTCCANGG N 101

SEQ ID NO:5133

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06129

## SEQUENCE DESCRIPTION:

GATCCTCATT CTTTCCCCCG TACAGTGGA AACATCTTN ATGTTTCCTT CATTATACGG 60

GATGGTTTTN CAAGAATAAG ACTTGACCAA GACCGACTGC CAGTAATAGA GCCTGTNAGT 120  
 ATTAATGAAG AAAATNAGGG ATTTGAACAT AACACACAAG TTAGAAATCA AGGAATTATA 180  
 GCTTTGAGTT ACCGTGACTG GGNGGNGATT GTGAAGACCT TTTGAGATT CAGAGCCTGT 240  
 GATTACTCCA AGTCAGAGGC AGCAGNNGNC AAGTNCTTTG NTTGCTAGCT GAAAGGACTT 300  
 AAATGGNTAG TGAAGGTCCA AAACCGGGNA AGCGGCATNG TGTGGN 347

SEQ ID NO:5134

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06130

SEQUENCE DESCRIPTION:

GATCACACTG CAGTTTCCAT GTTAGCACTG TGGATGGGTT TTNAATCAAT AAAAAGTGG 60  
 GGTTCCTTCA AA 72

SEQ ID NO:5135

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06131

SEQUENCE DESCRIPTION:

GATCTGTAAA ATAAAACTC AGCTGGGTCC AGATATCAGG TGTCTAAAT CTAAGAATGT 60  
 AAGAACAATC TTAATAGAAA TATGTNTTTA ATAAGTGGCT AATATCTACA AATAGTACCT 120  
 TTGCTAAATG ANTTCTTTTT NATGACTATN TTGTTTTNA GNAATTGGGT GAAAANNCAA 180  
 CTGANATGAG ATTATTTATN ATN 203

SEQ ID NO:5136

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06133

SEQUENCE DESCRIPTION:

GATCTTAGAT TTATGAAGC ACAGTATGCA GGTAGGCCTA ATGGGGGAAG ATGGTAATAT 60  
 AAAAGCAAGA AGTATTTTTT TTTTGAAAT GCCTGAANGC TGTNCTGNGG NTGCCCTCCC 120  
 CTTNCCTTN 129

SEQ ID NO:5137

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06136

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGGGAGT TCGAGACCAG CCTGACCAAC ATGGAGAAAC CCCATTTCTA 60  
 CTAATAATAC AAAATTAGTC AGGCATGGTG GCGCATGCNT GTAATCCCAG CTAATTGGGA 120  
 GGCTGAGGCA GAAGAATCGC TTGAAACTGG GAGGCGGAGG TTGCGGTGAG CCGAGANCAT 180

GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAA 240  
TAAATAANTA ANCCCTCANA NNAAAAAATN 270

SEQ ID NO:5138

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06137

SEQUENCE DESCRIPTION:

GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A 51

SEQ ID NO:5139

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06138

SEQUENCE DESCRIPTION:

GATCTGGGCT CCCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCCAA CCACCTTTCC 60  
ATCCCCAGCC CCTCTCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT 120  
TGTTAGACTT TGCCATTGTN TTCTTTTGTG CCTGAAGCAT TTTGAAAATA AAGTTTACTT 180  
AAGTTATAAA 190

SEQ ID NO:5140

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06139

SEQUENCE DESCRIPTION:

GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCGAGGCC 60  
GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTCAGCA GTTTGGCCTC TTTCCCTCTG 120  
TCTGTGCTTG TGTTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA 180  
ATTTNGTATA AATAGGAAA 199

SEQ ID NO:5141

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06141

SEQUENCE DESCRIPTION:

GATCCAACCA CCTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG 60  
CAAAAAAATT TTTTTAAAAA AAGGAGAAAG CAGTTTAACC ACAACAGTG AACAGAGCT 120  
GGCAGACGCC TGAACTCCA TGGAAACCATG CAGCTGTACC CTAGGGCTCC TCCCAGGAAA 180  
AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 240  
NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 300  
CTCTGTGTGC TN 312



SEQ ID NO:5142

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06142

SEQUENCE DESCRIPTION:

GATCTAAGAC AGCAAAGAAG TGTGCAAGGA GGGCCCTGTT AGCTCCCACT GTCCTGGTTT 60  
 CTCCTCCTGG AGTCTAATTT CCTTGGCCCT CTGAGCCTTT TGAGTCTGGG CCCTGGTCCA 120  
 ATGCTGCTGT TGTCTGAGGA ATGGTTTGGT GAGAACAGAT GTTAGAACTT GTTTGTTGAT 180  
 TCTTGTCTGG CTAATAAATC ANCACCAACT GNCTTCTCCN ACAGGGAAA 229

SEQ ID NO:5143

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06144

SEQUENCE DESCRIPTION:

GATCTAAGAT TATTCCTATG AGAAATGTTG AATTTATGAA GAATAGATTT TAAGGCTTTG 60  
 AAAATGGTTA ATTTCTCAAA AACATCAATG TCCAAACATC TACCTTTTTT CATAGGNGTA 120  
 GACACTAGCA AGCTGGNCAA ACTATCACAA AAGTATTTGT CACACATAAC CTNTGGTCTG 180  
 TTGCTGATTA NTACAGTACT TTTTCTTTGT GTGATTCTNA ACATTATAGC ACAAGTATTA 240  
 TCTCAGTGGG TTATCCGGAA TAACATCTGA AAGNGGGGTT CATCTNTGGT NNGGTTTGCT 300  
 CNNTAAACTA GNGTNTCTCC TGGTCCCAANT GN 332

SEQ ID NO:5144

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06145

SEQUENCE DESCRIPTION:

GATCACATCA CGGAATATTC TTTGCCTTTC CACTTTCAG GAAATCTCTC GGACTGGGCT 60  
 AGCCTCCTTG TGTGTGATGA AAGATGGGCT ATATTCAGA ACANAGTGCT GTGTTGTCAT 120  
 GATTTGCCTG GACTCCCAGG GCGTCTCTTA CCCAACTTGA TAACGATGCT GTTCATTAGC 180  
 AGCCTGTGTT AACTGATAAC CAAGAGCGGT AATGTGATAC TCATAAGCAA TTTTCTGTGT 240  
 GTAGGATAAA ATANNCCATC TTGTATNATT NCAAA 275

SEQ ID NO:5145

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06146

SEQUENCE DESCRIPTION:

GATCTCTTTT CAAGTTCAC TATTCTTTCT TCTGTAATGT TCAATCTCTC TTAAGAAAGT 60  
 CCAAATAAAT TTTTCATTTC AGAGAGTGGA AA 92

SEQ ID NO:5146

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06148

SEQUENCE DESCRIPTION:

```
GATCTGGGCA TTAAGTCAGT GGCTTTGCAT AGCTTTCACA AGTCTCCTAG ACACTCCCCA 60
CGGGAAACTC AAGGAGGTGG TGAATTTTTC ATCAGCAATA TTGCCTGTGC TTCTCTTCTT 120
TATTGCACTA GGAATNCTTT GCATTCTCTTA CTTGCACTGT TACTCTTAAT NTTAAAGACC 180
CAACTTGCCA AAATNTTTGG CTGCGTACTC CACTGGTCTG TCTTTGGATA NTAGGNATTC 240
AATTTGGCAA AACAAAGTGT AATGTCAGAC TTTGCTGCAT NTTACACATG TGCTGATGNT 300
NACAATGGTG NCGAACATNA GTN 323
```

SEQ ID NO:5147

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06150

SEQUENCE DESCRIPTION:

```
GATCTTTTGA GTGGAGGTGG GTAGAGAGAG CAAGNAGGGC AGGACACTTA GCAGGCACTG 60
AGCAAGCAGG CCCCCACCTG CCCTTAGTGA TGTTTGGAGT CGTTTTACCC TCTTCTATTG 120
AATTGCCTTG GGATTTCCTT CTCCTTTTCC CTGCCCACCC TGTCCCCTAC AATTTGTGCT 180
TCTNAGTTGA GGAGCCTTCA CCTCTGTTGC TGAGGAAATG GTAGAATGCT GCCTATCACC 240
TNCAGCACA TCCAGCGAA AAAGGGTGTG AAGNACCCAC CATGTTCTTG GAGCANTCAA 300
GGGTTNCTAA ATNNNNCGGC TGGGACCANT NANATAGTGA GTNNNNN 347
```

SEQ ID NO:5148

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06151

SEQUENCE DESCRIPTION:

```
GATCTGCCAT ACCACTGTGA CTGCATTGAA AGATGTCCCT TTCTCTCTCT GCCAGTCGGT 60
CGGTGTGGGA CAAAACACAG ATATACAGCA GATAGCGGCC AAAAATTCA CAGACACCTC 120
TCTCATGTAC CCAGAGGACA CTTGTAAATC TGGACCAAGT ACGAATACAC AGAGTGGTCT 180
TTTCAACACT CCTCCCCCTA CTCCACCGGA CCTCAACCAG GACTTCAGTG GATTTCAGCT 240
TCTTAGTGGA TGTTGCACTC AAACGGGGCT GCAGAGATGG AGGCTTNAGG GNANANCTTT 300
ACAGNTTAAC CCNATTTTCA AGCANAAACA GTTCTCANGA AGTGTCATGA TTGNCCGGGG 360
TAGAAGGGAA AGAGATTGAA TTTGCTTN 388
```

SEQ ID NO:5149

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06152

## SEQUENCE DESCRIPTION:

GATCTATAAT GGGATACATT GTCATCCTCT AGCAACTCCT ATATAGAAAG TTTTAACTGA 60  
 ATATGTTACA TATANGAATT AAATTCTTCT CAAATAATTC TTAACCTCAG TNATGAGCCT 120  
 AAATTTACTC TGCTTGGCTC TCTACACATG GCATTTTCAGG GTATAAGATG TAGCATTTNA 180  
 ATGTGTAAGA TATATGTACN NNNCATATGT GTTGCTATCN TCATCATTAA CATCCTTCTT 240  
 TNCTATTGCT TGGCTGTAAT TTTTGTAAG ATAAATTATA TTGTNTNNNT GTATGTGTGT 300  
 TTGTAGTN 308

SEQ ID NO:5150

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06153

## SEQUENCE DESCRIPTION:

GATCTGTCCT GTGAGGCATT TAGGGGCTTT CAGGAATTTA GTAAAAGGTG GAGTATGCCT 60  
 TTCCAGTATC TTCCATCTTC CTTTGTATAC TTGTCCTTCC TCCCATTTC TCCCTTTGGC 120  
 CCGAGGTAGG AGGATGGAGG GAGGCTGCTA CTCTACCACT TCCTGTGTGC CTCTACTGTG 180  
 GCCTCAACCC TGGCAATTAT AGCTACTCCC ATCCCTTACC TGGGCATGTG TGAGCCCTTC 240  
 TCACTGGATT TTATACCTT GTGTCTGTGT ACATAAATAT ATATACATAT ATATATACAT 300  
 AAAANCCTTG TACAAA 316

SEQ ID NO:5151

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06154

## SEQUENCE DESCRIPTION:

GATCAGGCAG GAGAAAACT TTAGATGGGA GTCTGTGCAT CAAAAATAAA TACAGTTGCA 60  
 TGGAAA 66

SEQ ID NO:5152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06155

## SEQUENCE DESCRIPTION:

GATCAGGACA AGAGCGANGC ACCAGGGGAG CTCTCTCCA AAGGCCTTGT CGCCCCAGAC 60  
 CTAACCTGCT CCCCTCAAC CTGCCTGAGG AAGAACTCT CAGGATTGCA CGGATATTTT 120  
 CTTCTCAGTA CTCCAGAAA GACTGACGCA GCCTGAGGGG CTGGGGTTGA AGGAGACACC 180  
 TGCCCANCN NCGTCAGNTT TGTCCAGCTT GCAGGAGGCA CCAGGTCTGG CTCCTTCAGG 240  
 GCTGTACAG TCCTGAAACC ACCACTTGCC TAGGTCACGG ATGCCTNAAG AGACCCGGTN 300  
 AGGCTAGATN N 311

SEQ ID NO:5153

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06156

SEQUENCE DESCRIPTION:

GATCTAGGGC TGGCCCTAG TGAGTGGGCT CGAGGGAGGG TTNCCTGGGA ACCCCAGGAA 60  
TTGACCCTGA GTTTAAATT CGAAAATAAA GTGGGGCTGG GACACACGAA A 111

SEQ ID NO:5154

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06157

SEQUENCE DESCRIPTION:

GATCTCCTNN TCCAGTGCTG CACACTCCTG TTTTTGGAAC TTTAATAGCG TTGCAACGAA 60  
ATCCTATATC CAGTTTCCTG TAATTTANTT GAAGAAAAAT ACATCCAAAT AAAGACTTTA 120  
TTATTAAACAG ACCAGATAGC ATCAGAAATC ATGTGACTGT TNTGCTTATC AGANTATGTC 180  
TNAACTNTTT AGGGCAAAGT TAACACTGAA AGTTCTAGCT TAAGTGTTGA NCCTNTNGTG 240  
GGAAAAANAA TTCCACTTGT GAAACNTCAG GCTN 274

SEQ ID NO:5155

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06158

SEQUENCE DESCRIPTION:

GATCACTCTG GTGCGGGTGT TTGGTTTTGT TTTAAAATAG CTTTGCAGTG AAAGCTTTCA 60  
TGACCATACA AATNATCTTT TTTCTTCCTA TTTCTTGTGA GAGGTTTTTT TCCTCCTTGT 120  
CTTAAGGTCA TAAAAATATT GTTATGTGGG ACAA 155

SEQ ID NO:5156

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06159

SEQUENCE DESCRIPTION:

GATCTGTGGC TTTGCTCCAC CATCCCTAAC CAACCTCTCA TCACAGCTTT NTGTGTGGGC 60  
TGAGTGCTGG CCTTAACCTT AGGCGTGGAA GAGAAAATGT GAGGTTGTTT AGATACTCAT 120  
CAGGACCTCA CAGGAGCTGA GACTTATCAG CCAGAATNTG TTCTTCGGAC AGTCGTACAC 180  
ATCTTACAGA AAACCTCCT TNGTAGAGTT GGNTTGTGGT ATGTGTTTGA TGCTATAAAG 240  
CTCATTTTTA ATGGTGTA CA CTGNTTCTA GGGNCGATTT CGTTTTGGAA GNGGGTAANG 300  
NTGCNTTAA CAGGTAAC TN ATCCTTGGGN TTTAAGGTGN AAAAAATNTT CTNGNCAAAG 360  
GGAANCCNN 369

SEQ ID NO:5157

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06160

SEQUENCE DESCRIPTION:

GATCAAAATC AAAAGAACCG TGTAGATATA CTTNATTGTA TAAGTAGAAA ATTACTTAAT 60  
 TNCATACTAG AAATGGATGG ATGCTGCAAG TTGAAATGGA CTGTCCATTG ACGGTCCTAA 120  
 TGTGGTAGCA GAAAAANATG GTGCTTAAG TNCTTAGNGT TTGATGTCAT TAACAGTTTC 180  
 GTAAACTCT ACAGTGTAGN AAGTTTTTTC AATACTAAAC TGTGCGTTGT NCATAGTTCT 240  
 AATGCATTGT NTTNGCCNCC CGGTACTTTC TNTNAANGN 279

SEQ ID NO:5158

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06161

SEQUENCE DESCRIPTION:

GATCTCAAGT GAGATAGCAG AGCAAGATGC CAAAAGACCA TAAATAGAGT AAGGTTTCTA 60  
 TAGATGTNAG ACAGATTTGA GAGAGCATTT ACTCTGTCTC CCTGTGGATG AAAGTGTCTG 120  
 TGAAATGTTT CCAATTTTNA GGAATCTGCT TACCCNCTTC ATTATTTGAC AGCTTTCCTT 180  
 GGTGACCCAA ACCTTGTAGC CTAAGCCATT TGTCTTTTTC TCAGTGGAGG GAGTGTATGG 240  
 ACCTGGCCCC ATGGCTTTGC ATGTTAGAGA CCTGGCNGAC TAAAGTCNCN GGGTGTGTTGT 300  
 TTGCTCACAT TTGCTGAGTG ACAGNTATGG TGNCNN 337

SEQ ID NO:5159

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06163

SEQUENCE DESCRIPTION:

GATCTACAAC CCCTTGGAGC AGTGCTGTNA CAATNACGCC ATCGTGTCCC TNAGCGAGAC 60  
 CCGCCAATGT GGTCCCCCTT GCACCTTCTG GCCCTGCTTT NAGCTCTGCT GTCTTNATTC 120  
 CTTTNGCCTC ACAAACGATT TTATTGTGAA GCTGAAGGTT CAGGGTGTGA ATTCCCAGTG 180  
 CCACTCATCT CCCATCTCCA GTAAATGTGA AAGCAGAAGA CGTTTTCCCT GAGAAGACAT 240  
 AGAAAGAAAA TCAACTTTTC ACTAAGGCAT CTNAGAAACA TAGGCTAAGG TAATATGTGT 300  
 ACCAGTAGAG AAGCCTGAGG AATTACAAA ATGNTGCAGC TCCAAGCCAT TTGTATGGCC 360  
 CATGTGGGAG ACTGNTGN 378

SEQ ID NO:5160

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06164

SEQUENCE DESCRIPTION:

GATCAGCCCC ACCCTGGCCT AGACCAGCAG ACAGAGCCAG GAGAGGCTCA GCTGCATTCC 60

GCAGCCCCCA CCCCCAAGGT TCTCCAACAT CACAGCCCAG CCCACCCACT GGGTAATAAA 120  
AGTGGTTTGT GGAAA 135

SEQ ID NO:5161

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06165

SEQUENCE DESCRIPTION:

GATCTCGTAA GATTAAATGT AGCATTCTAT ACTCCCTACA TGCACAGTAN GATTGTGTTA 60  
ATGAATGGAA GGAAAGACTA AATACAATGT CAAATGTNAC TATTAATTGG ACAAGAAAAT 120  
CCAAGTAGCA AATGACCATT ATGTGTAAGA CTTACTCTAA AAAGACCNTT TTAAATAGCT 180  
CATATATTAA TNTNGTTTAA AACCTGCTAT TTTCCAAAAC TGCAAAACTA GGGCTATAAA 240  
AATCTAAGTT AAAAAATCAG CTNATCCTCA TTGGTATAGT GGTNTGGNNA AAAAAATCCA 300  
GTTTAAACC NGNNTNNATT GANAGGNTGT CTCCATGCCT NCCATTGGGN 350

SEQ ID NO:5162

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06166

SEQUENCE DESCRIPTION:

GATCACTTTT ATGTAAAAAT TATAATTTAA TTAATAAAAA ATTTCTTAAG AAGTAAA 57

SEQ ID NO:5163

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06167

SEQUENCE DESCRIPTION:

GATCAGGCCT TGGCCTCTNA GCCCTGCCTG CTCTGGGCCA TGCAGAGGAA GGACAGAGNG 60  
TGGGCGCAGG GCACCAACTC AGGGACATCC CCTCTCCTGG GCGACGTCAG TGGACCTTCC 120  
TGCACCCCCA GCCTGGAATG TAAATNAGCT GTGTGGTGCC CGCGTNGCTG GAAGGAAATA 180  
GACCCTTTTN TAGCTCCCTG AAA 203

SEQ ID NO:5164

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06168

SEQUENCE DESCRIPTION:

GATCTCTGT GATACCAAAA TCCATGGATG CTAAAGTCCC TTTTAAAAA TGGCATAGTA 60  
TTTGCATATA ACCCAAACAC ACCCTCCTGT GTATTTTAAA TCATCTGTAG ATTACTTATA 120  
ATACATAATG TAATGTAAAT GCTATAAAAN TAGTTATTAG ACTGTATTTA GGAATAATG 180  
ACAAGANGAA AAAGTCTGTA CATGTTCACT ACAGAGGCAA CCTTTGTAGG TCTAAATANN 240

TTTTAATAC AGNANTNNGG ATGTNAGNN NGGN

274

SEQ ID NO:5165

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06169

SEQUENCE DESCRIPTION:

GATCTCTTTT TATTAAATG TGAATTTCAA CTTTGACAA TCAAAGAAAA GACTTTTGTT 60  
 GAAATAGCTT TACTGTTTCT CAAGTGTTCG GGAGAAAAAA ATCAACCCTG CAATCACTTT 120  
 TTGGAATTGT CTTGATTTT CGGCAGTTCA AGCTATATCG AATATAGTTC TGTGTAGAGA 180  
 ATGTCACGTG AGTTTGTAGT GTATACATGT GTGGGTGCTG ATAATNGTGT ATGTCCTTTG 240  
 GGGGTGGAAG NGGATAACAA TTCAAGCTGA GAAANGTATT CTCAAAGATG CATTTTATA 300  
 ANTNTNATTA ANCAATNTTG TNANAGNNNG ANGNGTGGGN NTN 343

SEQ ID NO:5166

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06170

SEQUENCE DESCRIPTION:

GATCATACGA GGCATGTAAT ACCAAGAATT GTTACTTTAC AATGTTCCCT TAAGCAAAAT 60  
 TGAATTTCCCT TTGAACTTTT AGTNATGCAC AGACTNATAA TAAACCCTCT AAANCCTGCC 120  
 CAAA 124

SEQ ID NO:5167

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06171

SEQUENCE DESCRIPTION:

GATCTTGGAC CCACTCTGGC CCGTGCCAG CATGGGGCTG CTTCTCCTCC ACAGCTCCTT 60  
 CCCAGAGGGC TGGGGCCTCA GCCTCCCTGC CACGTCCACT CTGGGTGCGC CTGGAACATA 120  
 CTACTATGTT GACAGTAACA ATAAAGCTCC TCAGGGACCA CCGTACAGGC CCGCAGCCCC 180  
 ACTGNCTGCT GTTGAAGAA AGCTGTGGAA AGAAAGCAGG GGGNCCCTGC CCCAGGCCAA 240  
 GGCCCTGCCC TTGCCACACA CGGTACACAN ATGCAGCCTC TCTNTCTCTN TGTGTCCACT 300  
 TGTGAAAATA ANCTGCAGGN CTGGNTNGGA CAACAAAGGN AGNNGNACAG TGTCTNGGNN 360  
 GGCANN 367

SEQ ID NO:5168

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06172

SEQUENCE DESCRIPTION:

GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60  
 GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTTAT 120  
 GATAATGCAG AATTAGGAAA ACGGTTCCACC AGTGTTTAGT TTTATATTGA GGTGCTCAGG 180  
 TTGGTATAAA GTGGTATAAA AAGCAAA 207

SEQ ID NO:5169

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06173

SEQUENCE DESCRIPTION:

GATCATGCCC TTTGTAGTAN CACAAATGGN GCTGGAGACC ATTATATTAA GCAAACCTAAC 60  
 ACAGTNCAG ANAACCAAAAT ACAGTATGTT CTCACTTATA AATGGGAACT AAAGNN 116

SEQ ID NO:5170

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06174

SEQUENCE DESCRIPTION:

GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTAA AAATGAGATT 60  
 AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92

SEQ ID NO:5171

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06175

SEQUENCE DESCRIPTION:

GATCANCAGA AAAGGCAAAT TTCACTCGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60  
 ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120

SEQ ID NO:5172

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06176

SEQUENCE DESCRIPTION:

GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAACCT ACTCCCCAAA AATGTGTGGC 60  
 TTTGGGTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102

SEQ ID NO:5173

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS06177

SEQUENCE DESCRIPTION:

GATCACTTNT NGTCTGATTC CAGCCTGCTT GCAACCCTGG GNTCCTCTTG TTCCTGCTG 60  
NCCTGCCCCT TGGGAAGGGG CAGTGATGGC TTGAGGGGA AGGAGGAGAC CCTCTTTCTC 120  
CCATGCTGCA CTTACTCCTT TTGCTAATAA AAGNGTNTNT AGATTGTCAA A 171

SEQ ID NO:5174

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06179

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTGNCCA ATTTAAATAA AAAATNNAAT ATAGATTCAG AAAGGTTTCAT 60  
ATTTTCTTAA TGACTTCATT CTATATTATN TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120  
GTACTGTGAT TAAAAGATGA AGAAAGCTAT TAGGTATATT TGTACATGNC TGCANNTGTG 180  
TCTATNNN 188

SEQ ID NO:5175

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06180

SEQUENCE DESCRIPTION:

GATCTTGAGA GGTGGAGGTT GCAGTGAGCC AAGATTGTGC CACTGNCTTC CAGCCTGGGA 60  
GACAGCAAA 69

SEQ ID NO:5176

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06181

SEQUENCE DESCRIPTION:

GATCTGTAA TATGTAACAT ATTAATGGGT AACTTGCTGT GTAAAATTAT AAGCCATATT 60  
TTAAAAGGTT TAAAAAATAC TTATTGTGCT CCATTGTGA TATAATTNCT AACATTTCTG 120  
CTCTGTGANN NNNN 134

SEQ ID NO:5177

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06182

SEQUENCE DESCRIPTION:

GATCTNGAG ATTGTTCCAC ATCAGTACAT AAAGTACATA AAGATTGTCA CCCACAAA 59

SEQ ID NO:5178

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06183

SEQUENCE DESCRIPTION:

GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT 60  
TGTCACGAAT GGGAAGCCAA GTGCCATCTT CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 120  
AAGCCAACAT CCTTTTGGAG CCATGAATNT TGTCCGAAC CCANNNTGTT GCTCAGANTG 180  
GANTTTCACT GGN 193

SEQ ID NO:5179

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06184

SEQUENCE DESCRIPTION:

GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA 60  
TGTTACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTCAAA 109

SEQ ID NO:5180

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06185

SEQUENCE DESCRIPTION:

GATCTTAATT TAAATAGGTG CTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT 60  
TACTCTGTGT AATGCTGGAT TGGTTAAAG GATTATAAG GGCTGTGTTT NCTCTNTACA 120  
AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 180  
ATTCTNTATA CATGNGGACT GCGTCTTTT CACTGACCCT ATGANTTAC TGTGGAGTAG 240  
GGTGAAGTGG NCTGCANATT AGTTTATTG TTGCCATAAT CACATTNNNG AAAAGAN 297

SEQ ID NO:5181

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06186

SEQUENCE DESCRIPTION:

GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN 60  
ACAGGTGTTT AAAAAAAGT GGTGTGCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 120  
GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGGAGAG 180  
TCCACTTGTN ATTTGACGGA GGTAGGTTT AACCAGAGT TAATGTCAAG CATGCTAATT 240  
TANCTAGTCA CTCACAGATG ACTTTCCTT AATAAAAGTC CCTTTCCCT AAAANAAAAA 300  
A 301

SEQ ID NO:5182

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06187

SEQUENCE DESCRIPTION:

GATCTTTGGG CAAGTCACTT AACCTCTCTT TNCCTCAATT TCCTCATCTT GAAATGAGGA 60  
TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG 120  
TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAATGTA AGGTATTATA GAANCATCTT 180  
TAACATATAG TTCATACCA TTCATTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 240  
TGGTTGAAAA AGTTANNCTT GGTATAANNT TGNGTTGGT TGANGNANAA GGN 293

SEQ ID NO:5183

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06188

SEQUENCE DESCRIPTION:

GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC 60  
AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGGAA GCCTAGGGGG AAAAGAAAGA 120  
NAATTAGAAT TTGCAAATNC TAGAAAAAN 149

SEQ ID NO:5184

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06189

SEQUENCE DESCRIPTION:

GATCGAAAAG AAATTTNTTT ATACTTGATG CCTTAAGATN CCCAAAGCTG CCCAAAGCTC 60  
TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 120  
AACATTTGAT AATAAACTT GCCTGTTTAA TCTCAAA 157

SEQ ID NO:5185

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06190

SEQUENCE DESCRIPTION:

GATCTTGCCT GGAAGGTGTT TTAAGTTTNT TAATAAACAA GATGATGTCT GAAAATNTGA 60  
AA 62

SEQ ID NO:5186

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06191

## SEQUENCE DESCRIPTION:

GATCTAGAGC AGCATGGAGC TGTGGTAGA ATATTAGTTT TTAACCATAC ATTGTCCCAA 60  
AAGTGTCTNT GCATTGTGCA AAANGTAAAC TTAGGAACAT TTNGGTATTA AAAGGATTAT 120  
TTTAATTGNN AAAAGCCNGA NGCGN 145

SEQ ID NO:5187

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06192

## SEQUENCE DESCRIPTION:

GATCAACAGC TCCGCCTACC GCAAAGCATT TGANAGCAGA CTAGCCANCA GTNGTGCTCT 60  
GAGAGTGAAC GNGCACCTCC AGGTNGAGGG CCACAGCAAC GTN 103

SEQ ID NO:5188

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06195

## SEQUENCE DESCRIPTION:

GATCTGATAG AGGGGGAGGC AGAAGCAGAT ACTAGAAACA AACAAACTT TGGACCAAAA 60  
TCCCAGTTCA AAGAAACAAA AAAAAGAGTG GAACTATTC TATCATAACT ACCCAAGGAC 120  
TACTAAAAGG ANAAATTGTG TTACCTTTTT TAAATTCCTT GTTAAGTCCC TTCCGTAATT 180  
TTNATGTTCT TGTGAGGANA AAAGTAAANC ATGTTTANTT TTAANNAAGG NGANAGNGGG 240  
NGTNTAGN 248

SEQ ID NO:5189

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06196

## SEQUENCE DESCRIPTION:

GATCTCTTAT ACAGACGCAC CAAAGCCCTC ATTGACTATG AGAACTCAAA CAAAGCTCTG 60  
GATAAGGCCC GGTAAAGAG CAAAGACGTC AAGTTGGCTG AGGCACACCA GCAGGAGTGC 120  
TGCCAGAAAT TTGAACAACT TTCCGAATCT GCAAAAGAAG AACTGATAAA TTTCAAACGG 180  
AAGAGAGTGG CAGCATTTAG AAAGAATCTA ATTGAAATGT CTGAACTGGA AATAAACAT 240  
GCCAGGNACA ATGTCTCCCT TTTGCAGNGC TGGTNTTGAC TTGTTCAAGA GTAAGTGGT 300  
ATGCCTTCAC TCNGTAGGAA NNGGAGTTGA ATTGTTGTAA GGAAGCCNAN GTGN 354

SEQ ID NO:5190

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06197

## SEQUENCE DESCRIPTION:

GATCTCTATT TTAAACTAG CTTTTTAAGC AGCTGTATGA AATAAATNCT GAGTGAGCCC 60  
CAGCCCGCCC CTGCAAA 77

SEQ ID NO:5191

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06198

SEQUENCE DESCRIPTION:

GATCTAGCTT CANAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60  
TGTGTTTAGC ACAGTAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120  
CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTNGTAGGGG NAATTAAGGC 180  
ACTTTNTTAA CAAACTTCAT TNTGTGAAAC TNGGTTGAAT ATTAACATAC AATTNNGNCG 240  
GGNNTATTAA TGCCATN 257

SEQ ID NO:5192

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06199

SEQUENCE DESCRIPTION:

GATCCCAGGC TGCCCTGGAC TTAGACCAGT GTCTGAGGTG GTAACAGCGG CCGCACAGGG 60  
TTGGCCTAGA CCTNGGATTT GTGGGGAAAG CTGCTGGTGT GACCANCTGA GCACCCAGCC 120  
AGGAGACCTG CAGCCCTNCG NCTTCCAGAA GCAGGTCCCA AATAAAGNCA GTGCCNACCT 180  
NCAAA 185

SEQ ID NO:5193

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06200

SEQUENCE DESCRIPTION:

GATCTGTATA TAACTTTAAT TTTAAGGACC ATAATCAACT TTGTAATATT CTNATATAAA 60

SEQ ID NO:5194

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06201

SEQUENCE DESCRIPTION:

GATCACCTC TACGGGAGAA CCAAGGAGCT GACTTCGGAA CTAAAGGAGA ACTTCATCCG 60  
CTTCTCCAAA TCTNTGGGCC TCCCTGAAAA CCACATCGTC TTCCCTGTCC CAATCGACCA 120  
GTGTATCGAC GGCTGAGTGC ACAGGTGCCG CCAGCTGCCG NACCAGCCCG AACACCATTG 180  
AGGGAGCTGG GAGACCCTCC CCACAGTGCC ACCCATGCAG CTGCTCCCCA GGNACCCNG 240  
NTGATGGAGC CCCACCTTGT NTGCTAAATA AACATNTGCC CTCAAA 286

SEQ ID NO:5195

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06202

SEQUENCE DESCRIPTION:

GATCTCTTGT TCTCTCCTGA GTGTCTTNCT ACTNTGCTGA GNGTCTTTCT GCTGTCCTTA 60  
TCCTGTTCTC TTATCCTNAT CCCCTCCAGT CTCTGCCTAA TTTTNAGTGT TTAATAACAA 120  
CCGNATGTCT AGTAAATN 138

SEQ ID NO:5196

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06203

SEQUENCE DESCRIPTION:

GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60  
AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96

SEQ ID NO:5197

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06204

SEQUENCE DESCRIPTION:

GATCTTGCAG CTTTATTTGA GTATTGTTC TTTTGTGTAG TTTCCATCTT TTAAATATT 60  
TAAATATTT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATTCCTGGAG TAATTTNCTC 120  
TCATAATATT TGAGGTCAGT GGTTCCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180  
ATAANGTCTT ATTTTNNANA TGCAAATTTT AGACCATAGA AA 222

SEQ ID NO:5198

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06205

SEQUENCE DESCRIPTION:

GATCAAGTGA ACCATCCCTA GTCTTCCCTC AATAAATAAC TTTTAACTCC AAA 53

SEQ ID NO:5199

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06206

SEQUENCE DESCRIPTION:

GATCANAGTG AACCTCAGT TTGTACAAA GAGTATGGG TCACAAGANG ATGATTCAGG 60  
 AAACAAACCA TCCAGTTATT CTTGAACTA ACATCCATCC TGAGCTAAAC NAGAGAACT 120  
 ACCATCTTGG CCAGTGNCAN GTGTTCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180  
 TGGNGACTAA GAANTTAAGT TTTGTNTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239

SEQ ID NO:5200

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06207

SEQUENCE DESCRIPTION:

GATCGAATAC GTGGATGNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60  
 GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120  
 GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACACGCCCC TNGGCACCGT 180  
 GGGCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233

SEQ ID NO:5201

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06208

SEQUENCE DESCRIPTION:

GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60  
 GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTTGCTGA 120  
 ATGTAAATC ATACTTCAAT AAACATGACT TAAAAANCTT AAA 163

SEQ ID NO:5202

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06209

SEQUENCE DESCRIPTION:

GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTCTTT GGAGGGAGGG 60  
 TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120  
 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTTA TGACATTTTG 180  
 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTTAAN CTGTATCACA TTTATNCTTG 240  
 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300  
 CTGGGAAAAAN NAAANNTTN 319

SEQ ID NO:5203

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06210

SEQUENCE DESCRIPTION:

GATCTGTCTA GTTCCCATTC TCTGTTCAAC CTCAGTGNTT CAAAAGTTCC TAATAAATAA 60  
ACTCATTGA GTTGAACCTA AA 82

SEQ ID NO:5204

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06211

SEQUENCE DESCRIPTION:

GATCAAGAAA GAAGCTATCT GGGANCANTG TAGCANTTAC GTCAGACCAG GACACTTCCT 60  
GTTTACAGGA GACTATAAAA CCTTTGTCCT ATCATCACTT GATGTGGACG NCATTTTAGG 120  
CCTCAGCCCG CCTGCACCCA GNNNN 145

SEQ ID NO:5205

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06213

SEQUENCE DESCRIPTION:

GATCAGAAGC ACCTCTTCTT TTATAGAAGT TGATGGATGG TTCATTCCAT TCTGCTACCA 60  
AGAAGTGCAT GCTGCTGCAG CGACACCTCA TTGCAACCTA TTATGAGAGA GTAAACACA 120  
CACTCAGTGA CATTTCAGCC TGCTCTCAAG NCCCAATTTT TATTCCATCA TTAAATAAT 180  
CCAGTAAACT TNCAAATTTG GAAACCANAA ACTAAGGCAT ACCTGGCTTA GATTCTTTCA 240  
GAATTTTCTG NTCTTTTGTA CGTAAATTNA AAAATAATTT GTGGCAGGNN TTAA 295

SEQ ID NO:5206

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06215

SEQUENCE DESCRIPTION:

GATCTTTAAA ATNAAGTGTA CGCTTATAAT ACAAGTAATG CTTGTGTATT TCTCACTTTA 60  
GGAAATAAAA TATTTGCCAA TTTGAAA 87

SEQ ID NO:5207

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06216

SEQUENCE DESCRIPTION:

GATCCTCCCA TCTCAGCCTC TCGAGTAGCT NGGACCACAG TTGTGTGCCA CCACACTTGG 60  
GCTAACTTTT TAATTNTTT GCGGAGACGG TATTGCTATG TTGCCAAGGN TGNTTACATG 120  
CCAGTACAAT TTATAATANA CACTCATTTT NCCTNCCGTC TGAAA 165

SEQ ID NO:5208



LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06217

SEQUENCE DESCRIPTION:

GATCTTCTTC AGAAGCTTCA AGTCTCANCT GCATTAAAGC TCTCCATTGA ACCCGNTCAC 60  
AAAAGTACAA GCTTAAAGGG GCTAAAATCC ATTAATACAT NCCATNTTAT ANCCCN 116

SEQ ID NO:5209

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06218

SEQUENCE DESCRIPTION:

GATCCCCTGN ACCGAGTACA CGACCCAGGT ATGTACCAAG TAGGCACCCT TGGGCGCACC 60  
CACTGGGGCC AAGGGTCGGG GGAGTGTGG GAGCCTCCTN CCCACCNNAC CTNCCTN 117

SEQ ID NO:5210

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06219

SEQUENCE DESCRIPTION:

GATCAGCCAC TTGCTGACCC TGGTTCTTAA GGACACATGA CATTAGTCCA ATCTTTCAAA 60  
ATCTTGCTCT AGGGCTTGTG AGGAATCAGA ACTAACCCAG GACTCAGTCC TGCTTCTTTT 120  
GCCTCGAGTG ATTTTCCTCT GTNTTCACT AAATAAGCAA ATGAAAAC TCCTCCATTAA 180  
A 181

SEQ ID NO:5211

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06220

SEQUENCE DESCRIPTION:

GATCANAACC AGTTTGTAGA TTTCTTTGTT CCTTCTCCAT TCCCACTGCT TCACTTGCCT 60  
AGTCTTGAAG NAAAAAACA AAAAACAAAA AAAACCTTGT TCCTTTATAG GTTCCTGGTA 120  
GAATCAGTAG AGATGATTTC AGCTCATTGA CATTTTTTTA AGCTATATCC CCTTGTCATT 180  
CCATTGAGAA AGCTGACAAC TGGGATAGGG AGGGGATTCTG ATAATAGATG GGGTCAAATT 240  
CTGTGTGAAT GTGAACCTGC CTAGTAAGCA CTTTGGTCTG TGGTTCAC TN CTGCGGTTAG 300  
NNGAAATCTA TCTCCCCTAT CTTNGGGTCC TTGAACTACA GCNN 344

SEQ ID NO:5212

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06221

SEQUENCE DESCRIPTION:

GATCACATAA CTAGGAAGTG GCAGAACTGA TTCTCCAGCC CTGGTAGCAT TTGCTCAGAG 60  
 CCTACGCTTG GTCCAGAACA TCAAACCTCCA AACCTGGGG ACAACGACA TGAAATAAAT 120  
 GTATTTTAAA ACATCTAAA 139

SEQ ID NO:5213

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06222

SEQUENCE DESCRIPTION:

GATCGTAAAC CATTATCCTT TAAAGGTNTA TTTGAAGATG CTGTTAAAGT ACAGAATTTT 60  
 GTGTACAGGT AGATTTTNCCT GTCCCTCATT AATAGTGCCT TCTTAATTAA TACAGACTGG 120  
 TGTTAGCTAT AACAAACTC CAGTANNGGG GGGTGNATCC CAAGTNCTTT GTGGCNANN 179

SEQ ID NO:5214

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06224

SEQUENCE DESCRIPTION:

GATCAAAATG TTCTGGAATT AGATGTGATG TTTGCACAAC TCTGTGAATG TACTAAGAAC 60  
 CACTGAATTG TATATTTTAA AAGCATGGTA TGTGAATAAT ACCTCAATAA AGCTGTTATA 120  
 AAAAAATAA 129

SEQ ID NO:5215

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06225

SEQUENCE DESCRIPTION:

GATCTTCAAG CATAGNNTTG CATATTTTAA CATCTGAAAT CAGAAAGTGT CTTNNCTGGG 60  
 AGTNTGGTTT TAGAAACATG AAATAGTACT GTATGTTAAA ATCGATGGCA GTGTTGCCTC 120  
 GATGATATNT N 131

SEQ ID NO:5216

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06226

SEQUENCE DESCRIPTION:

GATCTTTGAG CGGGACCTGA AGAAGAAGGG GCCCGAGCCG GTGCCACTGG AGTTTATCCC 60  
 AGCCCGAGGC CTGCTGGGAC GGCCGGGTGA ACTCTGTGCC CAGCACTTCA CGCTCAGCTG 120  
 ACCCTGGCCC ACCTGTNAAT AAATCTCAGC TGACCCAGC CCACCTGTNA ATAAATNTTT 180

TTGCAGGAAA

190

SEQ ID NO:5217

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06227

SEQUENCE DESCRIPTION:

GATCCCTGGT CTTCACTG TAGCAGCCAA AAGGAACAAG CTGAAANTGG ATACCTAATG 60  
TAAGTGGAGT CTTCTAAGTG TTTCCTGGAA GAAGTCGGGT CCCAGGCTCN AGTTGCTGGT 120  
TCTNACATGC CACCATCCAC AGTCCTTCAG CAGATTNATT CAGTGGCTAA TGCTGATATC 180  
ATAAATGCGG CAAAGAAAGTT TTTTCTGGC CAGANGTCAN TGGCAGCAAG TGGAAATTG 240  
GGNCATNCAC CTTTTGTTG ATGAGTTGTA ATACTGNNGC GCNCATTACC AGGTGAGAGC 300  
TGGANGCTNT TTTCAGNCCN TGN 323

SEQ ID NO:5218

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06228

SEQUENCE DESCRIPTION:

GATCAAAGTT CAAATTAATT TTAACCTAGC TAATNAACTC ATCACCAGGA CAGTTGGAGG 60  
GGGTAGGCCG AGGTAAATG GTCCACGTTT CAAAAATGTT AATGGCTAAT CCATAATTAA 120  
AGAAGGTTTA ACTGTACTG AAGTTTACAA GTTTTATTGT CATGNACATG AANTACAAAC 180  
ACGATGGCTT CGAAATGTCT TTCAATAANT GTTCTGTCAT TTAAT 225

SEQ ID NO:5219

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06229

SEQUENCE DESCRIPTION:

GATCTCATTC TCACCTCAGA AACCATTTAC AACCCAGATT ATNATAGTAA TTTGCACCAG 60  
ACTTTCCTTA GACTGTTAAG TAAAAATGGA CGTGACTTT TGGCCAGCAA AGCACATTAT 120  
TTTGGTGTAG GTGGAGGTGT TCATCTCTTT CAGAAGTTG TAGAAGAAAG AGATGTTTTT 180  
AAGACCAGAA TACTCAAAT AATTGATGAA GGATTGNNGA GGTTCATAAT TGNAATAACT 240  
TTTAAGTTTC CTGGNTTANT TAACATTCAC TTGNGTGTCC ANAATTGGNG ATAGACNGNN 300  
AGGCACANGN TGTCNTN 317

SEQ ID NO:5220

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06230

SEQUENCE DESCRIPTION:

GATCATATAC AGTTCCTTT TAAAAAGCA ATAAATNCTT GGAATTAGAA A . 51

SEQ ID NO:5221

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06232

SEQUENCE DESCRIPTION:

GATCAAGAAT GTTCCCAA GTTNTGAATA GAGTGCACA ATGTATCAA GANTTGTGAA 60  
GCAATGATTC TTTACAATAC AATAAAGTTT AATTATTTAC AAA 103

SEQ ID NO:5222

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06233

SEQUENCE DESCRIPTION:

GATCTCAGC ATGTNTGGAA TTTCAAAAAG CCAAATCAC AGAAGCAGAG TAGGATGGTG 60  
GTTGCCAGGG CCTGGGACGT GGGGGAAATA GGGAGATGTT TGGTGTCTGT TAGGAAGAAT 120  
GAATAAGCTC TGGAGAGCTA ATGTACAGCA TAGTGACTNN NGNTAATAGA ACCGTATTAT 180  
ATACTTGANA TTTGTGAAGA GAGTAGATGT TAANNNNN 218

SEQ ID NO:5223

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06234

SEQUENCE DESCRIPTION:

GATCTGTCAC TTACTTCTGT GTGACCTTG AAAGGCTACT TATTCCTCT CTTAGCTTTC 60  
TCATTAAAT CAATGAACAA TGCCAAA 87

SEQ ID NO:5224

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06235

SEQUENCE DESCRIPTION:

GATCTCAGGC TGAGCAAAAT NAAACCTTGA TGTTACGGGC TAAATCAAGA GCAGCTTAAT 60  
CCTGTTTACA ATGTGAGCTT TTTGTGCGTC TGTGAAATGT TTTACAGTGT TTCTCATCAT 120  
CTGTTTCCCA GCAAGGTCTT TNNTTTNCN ACATTGAAGT NCTGNCTATG TATCTNAATC 180  
ACAAATGGNT TCATTCAC TN 202

SEQ ID NO:5225

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06236

SEQUENCE DESCRIPTION:

GATCACAAGC GTATCCATNG TGAGGTTCCG TGGATGGAAG CTNATGGATN TNCCTTCCTG 60  
ATGTTTCATCT GCCACCTTGC TATTNAATGC ATCCTGTTTA TAACTGTCTT CTAAATATTG 120  
AATAGAAATA AAGCATTGT ACAGTAAA 148

SEQ ID NO:5226

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06237

SEQUENCE DESCRIPTION:

GATCGAAATT GCGGGCTATG GCGCCGAAGT TTTTCGTNAG TACTGGGATA TCCCCGATGG 60  
CACCGATTGC NACCGCAAAG CCTACAGCAC CACCAGTATT GCCAGCGTCG CTGACTGACC 120  
GCCGCTGCCT ACAGAGTCAC ACTCAATCCT CCGGGCACCT TCCTTGAAGG AGTGGCTAAG 180  
GTTGGACAAT ACACGTTTAC TGCAGCTGCT GTCGGGGCCG TGTTTGGNCT NACCACCTGN 240  
ATCAGCGTCC ATNTCCGTNA GAAGCCCGGA CGANCNCNTG AACTACTTNN CTCGGTGGCT 300  
TTCGCCGGAG GCTTNACTTT TGGGGGNANG GACGTACAAT NTACGGGGTT TGGGGCCGCC 360  
GNNTTTGGTN 370

SEQ ID NO:5227

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06238

SEQUENCE DESCRIPTION:

GATCTGTGTG AAGAATGGTA ATNACGTAGT TGNAAAGGAA AATGTACTGT TGTGTGTTTC 60  
ATTTGTGTGA TTTCGTACCA AAAAAATGTG TTTGAACTAT ATTGTATGTA ATTTGGAAGT 120  
CGTGTTAATA AAACCCTGCA GTTTCCAAA 149

SEQ ID NO:5228

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06240

SEQUENCE DESCRIPTION:

GATCAGGCTT TGAAGGCTGG ATTCTATCTA CATAAGTCCN TTCAATTCCA CCATGGGNCA 60  
GAGCAGCTCC ACCACGTGTG CACTTAGCCA TNGNTGGCAA CAGAAACCAA GAGACACANN 120  
TACGCAGGN 129

SEQ ID NO:5229

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06241

## SEQUENCE DESCRIPTION:

GATCATTTAG GAAAAATAAT TCTATTTTGA GCTTTTCATT TCTCAGCTGT CCTTNTTCT 60  
 NNTTTGATTT TTGACAGCAA TGGAGAATGG GNTATATAAA GACTNCCN 108

SEQ ID NO:5230

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06243

## SEQUENCE DESCRIPTION:

GATCAAGAGT TGTCATGCTA GGGAGACTAT TCTGCCTAAA ATTCTGGGGN ACTATTTTGT 60  
 GTTAAAGNAT ACTATGTATA TTAAAGGGT ACATATTTGA AA 102

SEQ ID NO:5231

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06244

## SEQUENCE DESCRIPTION:

GATCTTAAAA GTGTTATTTT TGCTTTTATT TTTTAAAAAA GGNNGAGGNT TATTGGCAAA 60

SEQ ID NO:5232

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06246

## SEQUENCE DESCRIPTION:

GATCTGCAGA TAGTTCTTTT TCAAAATATT GTTTAGACAA AATAAATTC TTAAATATA 60  
 ATATCTCTAC TTCAAA 76

SEQ ID NO:5233

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06247

## SEQUENCE DESCRIPTION:

GATCGNTCTG GTCGCAGCTT AGGAACAGCA GACGTGCACT TTGAGCGGAA GGCAGATGCC 60  
 CTGAAGGCCA TGAAGCAGTA CAACGGCGTC CCTNTGGATG GCCGCCCAT GAACATTCAG 120  
 CTTGTCACGT CNNGATTGA CGCACAGCGG AGGCCTGCAC AGAGCGTAAA CAGAGGTGGC 180  
 ATGACTAGAA ACCGTGGCGC TGGAGGTTTT GGTGGTGGTN NNGGCACCCG GAGAGGCACC 240  
 CGCGGAGGCG CCCGTGGAAG AGGCAGAGGT GCCGGCAGGA TTTCAAAGCA GCAGCTTTCG 300  
 GCAGAGGAGC TTTN 314

SEQ ID NO:5234

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06248

SEQUENCE DESCRIPTION:

GATCAATACC AAAAGACACT TGGAATCTTC TTTTAGACTT CAGTACGATG ATTGCAGATG 60  
ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTGGAAT 120  
TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC 180  
TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN 238

SEQ ID NO:5235

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06249

SEQUENCE DESCRIPTION:

GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA 60  
ATAAAATGCC ATAGTTTGTG AAA 83

SEQ ID NO:5236

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06250

SEQUENCE DESCRIPTION:

GATCTTAAAT ATCTGCAGC CTAAATCAC TACAAACATT TGCATTNTTA TTATGCCAGT 60  
TATTCCAAA ANGTATTGTN ATACATGTCA CTTATGTTT TAAGCTANTA TTGACTGTAG 120  
GATAATCTCC TTGTCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 178

SEQ ID NO:5237

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06251

SEQUENCE DESCRIPTION:

GATCTGAAGA GCTTGCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTGTGA 60  
GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 120  
ATGCATTGTA TGGTNTCTN 139

SEQ ID NO:5238

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06253

SEQUENCE DESCRIPTION:

GATCTAAGCC ACAGNGGGGA CTGGAGCCTC GTTTTCCCC TAGGCAGACC TAAATCAAGC 60  
 AGCTTACCAC AATAGTGCAT GCTGAGTAGA TTAGTTCCAA GGAAGGGAGA CTGGAATGCT 120  
 GGTGTCAAGG AAAAGCCTCC CTCATCATCT AGTCTAAGAC CATAACGGGC AGAAGCATAA 180  
 GAGGTTCCAG GGCCATAGGN GANTGAGAAG TAGGGCACAT ATAGGGAGGA AAGAAAAGTG 240  
 NAGNNGGGGG ANATCTCCGA NTTTTTTTAC TGCTTGGGAA AAGTGTACTA CATGANGGNT 300  
 GCTTNGGGCT TTGCTAACCT GCTCACCGCT AACCTNCCA AGTNTTACC ATCCCAGNG 360  
 GTN 363

SEQ ID NO:5239

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06254

SEQUENCE DESCRIPTION:

GATCTGAGGA ACAAATGAT GTCATTTAAT CGGAATCTAA ATGTGACACA AACAACGTGC 60  
 CAGCAATACC TGCTTGTGAA ATAATGTTCT GAGCCACAG TGTTCTGGG TATGTGAGTT 120  
 TATATCAAGT GAAAAGGCTG CTTAATTGAC ATTAAAGTTT TGGAAATGTAA A 171

SEQ ID NO:5240

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06255

SEQUENCE DESCRIPTION:

GATCATAAGT ATAAATGTCC TCGTTTAATC TTTCCATATT GAGGACAGCC TCTGCATATA 60  
 AAAATGTTCA TTGGGAGAAA AATTATTTTT AAAACTAAAT TTTTATAGTA GTCCTCCATT 120  
 ACTGGCAATT AAGGAGCAAC CCACAAAATG TCATTATGTG GTTCTTTGAT TAGGCATAAA 180  
 ANGTAATGCA AACAGCTTTN CTATTCCTTT GGAATATGAN TCTTTTAAAT GTCTAANGTT 240  
 AACCTGCAAC ATATTCTAGT AGGACANGTC AATGTAAATN AGGTAATTNT NGCCTGTNTT 300  
 ATACCTNCTG TNGCCATTG GTNCAAATGN NAACCATTN TNAGNCCN 348

SEQ ID NO:5241

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06256

SEQUENCE DESCRIPTION:

GATCAACAAG AGAAATAAAA AAGCCCAAGA GGAAGTGGTA GGGGAAGGAA TTTAAGAACA 60  
 GCAATAAGTA AACTCTTAA GTAACCTCAA AAAGAAAATG GTACATTTG CCAAAGACCA 120  
 CTTATACTTG AGAATATGGA AGAATTTGCC TGATACTNNN NGNNGGGGAA AAGAGTCTCT 180  
 CCTCTTTTCC TCAAACCCCA GTACACTCAG CCTCTNTGCC CCACCTTCTC CTGACTTTGT 240  
 CCTCACTTGC TTCTGCAGTA CATTGGAACC TGNNTTGAAA GAAAGTCTTC CTGANTAAT 300  
 TGGAGTTTGT CTTTGNNGG CAAATTTAGN CCCNNGGNTC ACAAGNTTTC GGGGGTN 357

SEQ ID NO:5242



LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06257

SEQUENCE DESCRIPTION:

GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60  
 TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120  
 GTCCTCCTTC ATTAAGAGTT TTTATGTCTC GTGTCAGAAA 160

SEQ ID NO:5243

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06258

SEQUENCE DESCRIPTION:

GATCAGACTA AAAACNATAA CACCATAGGT CAAAANAAGT TGTTCTGAGG TTTTTTGAA 60  
 ACATTAAAGN TCCAAACAT GACATTTTA AGAATAAATT TGNAATAGAG TATAATTGNN 120  
 TN 122

SEQ ID NO:5244

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06259

SEQUENCE DESCRIPTION:

GATCTCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60  
 CTCAATCCAA A 71

SEQ ID NO:5245

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06260

SEQUENCE DESCRIPTION:

GATCTGTTGT AATATATGGT GGATATTTTC CTTTAATTC AACATAACC TCTGAAATNT 60  
 GTATCTNTCC TTTTNTATCT TACCATTANT TTAAATCTA GTGGATTGGT TTTN 114

SEQ ID NO:5246

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06261

SEQUENCE DESCRIPTION:

GATCAGACCG CTCAAGGTC CCCGTNTTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60  
 GTTCATTCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGCCCA 120

CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCGACC 180  
 CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240  
 GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300  
 GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337

SEQ ID NO:5247

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06262

SEQUENCE DESCRIPTION:

GATCACCTNA TTTTNAAC AAAATATTTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60  
 AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTAAAA AAAGTTTAAA 120  
 AGGAAATATC TGTCTGAAA CCCCACTTAA GCATTGTNTT NNTATAAN 168

SEQ ID NO:5248

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06264

SEQUENCE DESCRIPTION:

GATCAACAAA GAGGACTTTG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCAGTG 60  
 GATGCATGTT NCTGGTCATT CGGGATTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120  
 AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTTNA 180  
 GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGGAA AATAGCCTGC AGGTAGGACC 240  
 ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300  
 NCATGGTNGT TTTATANANA AATNGGTTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 360  
 GNNAAGGNAN GANATGGN 378

SEQ ID NO:5249

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06267

SEQUENCE DESCRIPTION:

GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60  
 CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120  
 TTTAGTAGAA A 131

SEQ ID NO:5250

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06268

SEQUENCE DESCRIPTION:

GATCATCACT AGCAGATGTC AGTTGCACAT TGAGTCCTTT ATGAAATTCA TAAATAAAGA 60  
 ATTGTTCTTT CTTTGTGGTT TTAATAAGAG TTCAAGAATT GTTCAGAGTC TTGTAAATGT 120  
 TATTTTAATA ATCCCTTTAA ATNTNATCTG TTGCTGTTAC CTCTTGAAAT ATGATTTATT 180  
 TAGATTGCTA ATCCCACTCA TTCAGGAAAT GCCAGGNAGG TATTCCTTGG GGAAATGGTG 240  
 CCTCTTACAG TGTAATNTT NCCTCCTGNA CCTTGCTAA TATCATGGCA GANTTNNCCT 300  
 NATCCCTTTG TGAGGCAGTT TN 322

SEQ ID NO:5251

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06269

SEQUENCE DESCRIPTION:

GATCAAAAAT AAGATTACAG TTAAAATATT NCTATATTCA GATGGTTTAG AGACCAGGCT 60  
 GTAGAATCAG ACAGCCCTGA AATTGTATCA CACANGGCTG TGTTACCCTG TACAAATAAC 120  
 TTAGCCTTAC TAAGCCTGTA TTTCTCATC TGCAAANTAG GGNTGNTAAT ATACCTGTNG 180  
 NTAAANATGT TTTCATTAAA AANCGTTGGC GCAAA 215

SEQ ID NO:5252

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06270

SEQUENCE DESCRIPTION:

GATCTAAAGT GCAGCAGAGT GGCTGNTGCT GCAAGTNATG TCTAAGGCTA GGAACATCA 60  
 GGTGTCTATA ATTGTAGCAC ATGGAGAAAG CAANTGTAAA ACTGGATAAG AAAATTATTT 120  
 TGGCAGTTCA GCCCNTTCCC TTTTCCCAC TAANTTTTN CTAAATTAC CCATGTAACC 180  
 ATTTNANCTC TCCAGTGCAC TTTGCCATTA ANGTCTCTGC ACATTGAAA 229

SEQ ID NO:5253

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06271

SEQUENCE DESCRIPTION:

GATCGTGAAA GAGGCTTACC CAGACCACAC ACANGTTTGA GAAAAACAAT CCCCATTATN 60  
 ACCCATCTAG CAAAGAGGAC AACCCTAAGT GGTCCATGNG TGGATGTACA GTTTGTNCGG 120  
 ATGATGAAGC GTTTCATTCC CCTGGCTGAG CTCAAATCCT GTCATCAAGG CNCACAANGC 180  
 TACTGNTGGC CCCTNAAAAA ATATTGTTNT NGTCACTN 219

SEQ ID NO:5254

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06272

## SEQUENCE DESCRIPTION:

GATCACGCTG AAAGAATACC TTGCAGACAC TTAATCTCTG CGGCAAATGC ATGAAAGTAG 60  
 AAGGATGAAG CCAACTTTCC AAAAAGTTT ATGAAATTAC TTCAGTGNGA AAACCTATTA 120  
 AATNAANTNC AGCCNTTCTN TAAA 144

SEQ ID NO:5255

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06273

## SEQUENCE DESCRIPTION:

GATCCCGGGG ACATGATGCG GGAAATCCGC AAAGTNTTGG ACGCCAATAA CTGCGACTAT 60  
 GAGCAGAGNG AGCGCTTCTN GCTCTNCTGC GTCCACGGAG ATGGGCACGC GGAGAACCTC 120  
 GTGCAGTGGG AAATGGGAAG TNTGCAAGCT GCCAAGACTN TCTCTNNACG GGGGTCCGGG 180  
 TNTN 184

SEQ ID NO:5256

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06274

## SEQUENCE DESCRIPTION:

GATCAATGTG GGCACCTAAA AGGGTATGTT AAAATCACCA TTTCTCAGGT CAAAATACTG 60  
 TGAATAAGTC TTCAATAGAA TCACTANTGG TTNNAAN 97

SEQ ID NO:5257

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06275

## SEQUENCE DESCRIPTION:

GATCATATCT ACATGTATGA ACTTAACATG GAAAATGTTA AGGAAGCAAA TGGTTGTAAC 60  
 TTTGTAAGTA CTTATAACAT GGTGTATCTN TNTNCTTATG AATATNCTGT ATTATAACCA 120  
 TTGTTTCTGT AGTTTAATTA AAACATTTNC TTGGTGTTAG CTTTCTCAG AAA 173

SEQ ID NO:5258

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06277

## SEQUENCE DESCRIPTION:

GATCTTTCTG GGAGCTGCGC CGGACAGAGT GGGGAGCTCC TAGTTTNTGG GGGGAAGCTT 60  
 TGATATCCAT GCCACGTCCA TCCACCCAC CCCTNTTCGT CACGAGCACA ATGGTCTTAC 120  
 ATNGATNTN TGTAAAAAAA TANAAATAAA TGGAGACTTT AACTCAAGCA ANNAAN 176

SEQ ID NO:5259

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06278

SEQUENCE DESCRIPTION:

GATCATTGA ACCTAGGAGT TAGAGGCTGC AGTGAGCTAG AATTGCACCA CTGNATTGCA 60  
CCTTGGACAA CAGAGTAAGA CTCCGTCACC AAA 93

SEQ ID NO:5260

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06279

SEQUENCE DESCRIPTION:

GATCAGGAGG CCACCCCTT CTGTGGCACT TCTGAGATGA CAACTTGTTT CACAGTTGGA 60  
TGGGGGTGGG GAAGGAAAGA GCGGCCCAT TATTCCAGAA CATTTTATCC ACACAGGCTC 120  
AGACACCCTG TGATGAAGAG TCCAAGAACA GCCTGAGATA AGGATGTCAT TNTNTTTC 180  
CAGNCCCAC GATGGGTTTA TTTTTGGGA CCAAGACATT GGGTCCCTAC ATGTTTTCCC 240  
CTACCCTTCT NNGGGAATAA AATATCAAAC ANCCNCANA GNTGTNNTAT TNNTGN 296

SEQ ID NO:5261

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06280

SEQUENCE DESCRIPTION:

GATCTATTGA CTTGTAGAGG TTTGGGACAA ACAGGAATAT AAAGATTATG GAATTGGGAA 60  
A 61

SEQ ID NO:5262

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06281

SEQUENCE DESCRIPTION:

GATCACTGCA AACTCAAGG AGGCCCGGG CAGAGGAAAA AAATTTACCA CCGATGATTC 60  
CATTTGTGTG CTGGGAATAA GCAAAAGAAA CGTTATTTTT NAACCTGTGG CAGAGCTGAA 120  
GAAGCAAACG GATTTTAAGC ACAGGATTCC CAAAGANCAG TGGTGGCTCA AGCTACGGCC 180  
CCTCATGAAA ATCCTGGCCA AGTACAAGGC CAGCTATGAC GTGTCGGA CTGCCAGCT 240  
GGAANCATGT GCAGNNCTGG NGTGTCTGAC CCAGTCCCGN CTGCATGTGC CTGCAGCCAC 300  
CGTGGNCTGT CTCTTTTTTG TNACACTTAA GTNTTTTTN 339

SEQ ID NO:5263

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06282

SEQUENCE DESCRIPTION:

GATCTTATCT ACTTTCTCAT CTCCATATTT TGTAAAGAT AATATTGCCA GATGTAAAGA 60  
 AAATGGTTTA TTCTACCTAA AGAGTGGATA AGGAGAGAAN ATTATGATGA AATAAAAATT 120  
 ATAAGCAAAG TTTATTTAAN CTAAATTAA ATGTGAAACA TCACCTTTT CCTANTCAGA 180  
 TTTGATATTG CTACGGATAT ATNTTGNTGA TATNGTCACT ATATANNCAT ANGGGGANTT 240  
 TNACTNTCTA TTACCCTN 258

SEQ ID NO:5264

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06283

SEQUENCE DESCRIPTION:

GATCTCTCTC CTCTCTGACC TGGATACGCT TTGGTTTCTC AACTTCTCTA CCCCAGAGAA 60  
 AAGATTATTC AATAAAGTTT CCTGCCTTTC TGCAACATA AA 102

SEQ ID NO:5265

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06284

SEQUENCE DESCRIPTION:

GATCTAGATT TGAAAGTAAA TTTTATGAAG ACATTGCCCA TTTTACTTC CTCATTCATT 60  
 ATTGTACCAG CATCATAGCT TTATTACTCT AATCCCAGGT AAGTCAAGCC TACACTGCCC 120  
 TAGNGGNGC GTAAACCCAG AANTTCATGC TGGCTTAANT AATCTATTTT TGTTTCTNAT 180  
 CNTTTGAATN TTTAAN 196

SEQ ID NO:5266

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06286

SEQUENCE DESCRIPTION:

GATCAGCCTG GGCAACATGG TGAGACCCTG TCTCTACAGA AAAGACCTGA AAATTTTAAA 60  
 AAAAAGTATA AAGCCAAGCT GTTACCCAGC CACCTTGCTC ACATATTCTC AGGACCTGCT 120  
 GAGGTGGTTT CACAGGTCAT AGTCCTCACA TTTGCTCAGA ATAAATATCT TCAAATATTT 180  
 AAANNNGGN NANAATNTNT GNN 203

SEQ ID NO:5267

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06288

SEQUENCE DESCRIPTION:

GATCTGGACT ATCCACGTGC TTGAAACTT TTCCCTCAC CCTCCAGCCC TGGAGGCTTT 60  
TGCTGGGATG AATGTTTTTA TAGGGTTTTT GTTGAACAT AAGCTATTTT CTAATATGCT 120  
GCCAGGTACC CTAAA 136

SEQ ID NO:5268

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06289

SEQUENCE DESCRIPTION:

GATCTNGGAC TACNACTGGA CTACTAGCCT CCAGAACTAT NAAATAATAC ATTTCTAATG 60  
TCTAAGCCAA A 71

SEQ ID NO:5269

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06290

SEQUENCE DESCRIPTION:

GATCGGTTTT TGTGGGGAAT CTCCTTATA AAGTTGAAGA ATCTGCCATT GAGAAGCACT 60  
TTCTGGACTG TGGAAGTATC ATGGCCGTGA GGATTGTNAG AGACAAAATG ACAGGCATCG 120  
GCAAAGGGTT TGGCTATGTG CTCTTTGAGA ATACAGATTC TGTTTCATCTT GCTCTGAAAT 180  
TAAATAATTC TGAATCATG GGGAGAAAAC TCAGAGTCAT GCGTTCTGTT AATAAAGAAA 240  
AATTAAACA ACAAATTC AATCCACGAT TGANGAATGT CAGTAAACCT AAGCAGGGAC 300  
TTAATTTTAC TTCCAAAAC GCAGAAGGNC ATCCTAAAAG CTTGN 345

SEQ ID NO:5270

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06291

SEQUENCE DESCRIPTION:

GATCTCTGCT GTGCAGGTGC TAAGATTAAA CACTAAAAAG AAAGAGAGAT ATATGTAATG 60  
TACAACGTAC ACTGCCATTT TNCCTTTTGG GAGGAAATGG ACATAGATAA AGAAGATATT 120  
TCTNCGGTTA AA 132

SEQ ID NO:5271

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06292

SEQUENCE DESCRIPTION:

GATCTTCTGC CAAGTAATTT TNTTGCACAA TTTTCCTGTN CCAAANTTTA CTCAGTTAAA 60

AGTAAANAA TNCTTTACAC GTTTTAGGTT TTAGGACATT AAAAGTATGT N 111

SEQ ID NO:5272

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06293

SEQUENCE DESCRIPTION:

GATCATCTTA CGATATCAAG CTGAAAATTT CACCACTACC TGGACAGTTN CACATGTTTT 60  
ACTGGGAATA TTTTTCCTTT NTTTNTGTA TGCTCTGTGC TAGTAGGNTT GATTCA 117

SEQ ID NO:5273

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06294

SEQUENCE DESCRIPTION:

GATCATATTC ATTATGAAAG GTCAAGCAAA GACAGCAGAN TACCAATCAC TTCATCATTT 60  
AGGAAGTATG GGAACAAAGT TANGGAAATC CAGAAAGANG CCAAGATATA TCCTTATTTT 120  
CATTTCCAAA CAACTACTAT GATAAATGTG ANGAGGATTC TTTTTNTTG TGACCTATAA 180  
TANTNTACA NGCTTTCATG CATTTACTTG GTCCTAAGCA AATTANNGC AN 232

SEQ ID NO:5274

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06295

SEQUENCE DESCRIPTION:

GATCAAGTAT AATGTTAGCT GCAGGTTTTT AATAAATACC TTAATTCAGT TTGAAA 56

SEQ ID NO:5275

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06296

SEQUENCE DESCRIPTION:

GATCCTGAAC ATGTGCTGAT TTNAATTGTG CTATATAGTA TATAAANTAA AATANTTTTG 60  
GTATTTCTGC AACGTGACCT GATAATNAAT CTATTCATCC TGAGNAAGCT ATACTTCTGT 120  
CCNTN 125

SEQ ID NO:5276

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06297



## SEQUENCE DESCRIPTION:

GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTTAAGGTTT GGAGCACTTA 60  
 CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120  
 AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAGT GTTCCGGNTA GACAAAAGTTG 180  
 TGACCCGGGG NNCTCTGN 198

SEQ ID NO:5277

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06299

## SEQUENCE DESCRIPTION:

GATCTCAAGT TGTATAAAC CAATAAATTT GTGTACTGC AGTAGTAATC TTATGCACAC 60  
 GGTGATTTC TGTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120  
 GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180  
 GTTTCGAAA TTGTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231

SEQ ID NO:5278

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06300

## SEQUENCE DESCRIPTION:

GATCAAGNGC CATAGCCTTT ATTCAGGGGG CCTATAAACC CTTCAGTTC TGCCCCAGG 60  
 GCTGGCCTGC TAGCGCTTCA AATCCCAGG TGCCCTAAT TTNAGAAGTA ACCTTTTGGA 120  
 ATAGCATTAG ACCCTGGCTG TCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180

SEQ ID NO:5279

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06301

## SEQUENCE DESCRIPTION:

GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTT TTNAAGGGTT AGTATTAACA 60  
 AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120  
 AGATTTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158

SEQ ID NO:5280

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06302

## SEQUENCE DESCRIPTION:

GATCGAACAT NACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60  
 GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCCGCCACC TCCTCCAAGA CACCTTCCTG 120

AGGACGCTGG CCCAGTGCA GGCCAACATC NCACCCCTA CCTCCATATG GGACCTTGCA 180  
 GGTAAATCCCA CAGGCTGCAC TGTCAGGGGG GGGACCCTGT CCCCAGCAC TGGGCTTCAC 240  
 CTAGAACTTC AGTGGGGGCC AAGGGTGCTG AGAACCCAGC AATGNCCAGG ANGATACAGT 300  
 CACTAAACTT CATCTGTCCC CGTGCCCTT CCCAGGTCCT GNTTCACAGG TTTAACCAG 360  
 NACANTAAAN CCTNN 375

SEQ ID NO:5281

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06303

SEQUENCE DESCRIPTION:

GATCAGGATG AGATTTAATG CCCATATCTT ACCAGTTCAG TAATCTCCAG AGCCATTTC 60  
 CCCTTTAGAG TGAGTCACAT GCAGGGAGTG TGAATGTCAG AGGTGGTTTA TTATCCAGTC 120  
 TGCCTTACCC TTAATCTGTT CACAGATATT TATTTACTAA TGCTTTTTTT TTCTTAAGAG 180  
 TTATGGGATA GGAAATGAA GTGTTTGCTC TTCATTTACT AAATGATTGT AAATTGAGT 240  
 TTTTCATCAA AATAAAATTC CATTGTTTAA AA 272

SEQ ID NO:5282

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06304

SEQUENCE DESCRIPTION:

GATCCAAGGC CACAAGTAAG GCTATGGCTC TAATTCTAGA AGACAACCTT CCAAGATGCC 60  
 TGGCAAAACC ACCTCCCTGT GCCACACAGA CACACTAGGC CTGTGTATTT ATTTCCCTT 120  
 CAAAGCAGAC TGAGGAGGGA GGAGACGAGG TTCTCTTGGC ATCACTTTCT CCCTGGCTGC 180  
 AGAACTAGAC ACCCTTGAAG ATTTGGCCTG GGCCAGTNAG ACTGAAATCA AGAAAAACAG 240  
 AAGGGATGTG CAGGGTGGGG GGGTNCACCT CCTGCTCCCA TGTCAACCCC CAGGGCCTCC 300  
 AGCGTGCAGA CGCGTGTCTT ANTTNATCTG CTCCCACGGA TGANCCTGGT CTTCAATGGG 360  
 TTAGCAGNNG NGAGATNTN 379

SEQ ID NO:5283

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06305

SEQUENCE DESCRIPTION:

GATCCTCTGA AAAGGCCAG AAAAATAGCT CAGTTCAAAT ACAATGTTCT AGGACAATTG 60  
 GAATATAAAT ATTGTCCAAA AATATAATTA AAAGAAAAAA GTTTAGCACT GTGTAAAGTA 120  
 AGTGTTAACT GAGGAAGTCC CAAAAAGGTG CTGTCACTTT AAGTTCCTGGA CTTGGGGTTC 180  
 TTTGTATTG TAAACAGCAA NGCATTGTG TTTGTTGTC TATTTGTAAA GCANCCACCT 240  
 TCCTTATTGG NAGGNGANAA NNNGGGTNC ATNCATGTNA NACTTGCTG CAGCATTNA 300  
 TATGTTTAT TTTGTGTAN GCTTTTGTG GCATCGTGN CACATTATT GTTACCAATG 360  
 GACATGGGT CTTGTN 377

SEQ ID NO:5284

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06306

SEQUENCE DESCRIPTION:

GATCGTAGTG TTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT 60  
ATTATAGATA TATAANTANT CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 120  
TCAAGGAACA GCCACANAAT ACACACCCNN N 151

SEQ ID NO:5285

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06307

SEQUENCE DESCRIPTION:

GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 60  
AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTAAC TGCTATGTAC 120  
TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTGTCCCG CCAGCTTCGT 180  
GCCCTCCCA GTGAGGACCC TTACCAGCTG GAGCTGCCTG CCCTGCAGTC AGAAGTGCCG 240  
AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 300  
ANTTCTGCC TGCTGCATNA CNGAN 325

SEQ ID NO:5286

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06308

SEQUENCE DESCRIPTION:

GATCTGCCTC CTGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTAATCTG 60  
ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 120  
TATGTAGTTT TNTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 180  
AAAAGAAATT TTTATACTTT TAAA 204

SEQ ID NO:5287

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06309

SEQUENCE DESCRIPTION:

GATCCTCAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60  
TGGACTTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120  
AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180  
TTGTTGGAAG TGAAANCATT CTAGCAACTG TAANNANN 219

SEQ ID NO:5288

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06310

SEQUENCE DESCRIPTION:

GATCTTAAAA TTCATCTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 60  
TGCTTGATGA GGT TTGGAAA TGAAAGGGAA TTAATAAGTC ACCTTCCAGT CCATGAGACA 120  
ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 180  
TTGGAGATGA TTAAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTAACAAGTA 240  
NCTTTNTTAA ATNNTANNN 259

SEQ ID NO:5289

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06311

SEQUENCE DESCRIPTION:

GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTGCT GTCTAGTTGT 60  
TCTATCAATT ATTAAAAGAG GAATGTTAAT GTTCCAAA 99

SEQ ID NO:5290

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06313

SEQUENCE DESCRIPTION:

GATCAAATAC TT TAAAGGAA AAAATGTTGG ATTTATAAAT NCTATTTTTT ATTTTACTTT 60  
TATAATAAAA GGAAAAGCAA A 81

SEQ ID NO:5291

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06314

SEQUENCE DESCRIPTION:

GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60  
CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGCCTGTTC CCAGAAGAAT AAAAGTTTCT 120  
CATTATGGCA AA 132

SEQ ID NO:5292

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06315

## SEQUENCE DESCRIPTION:

GATCACTCTC CCTGACATCC ACCTGTATGA CTTTGTACCC AAATGCTGTC TTCTCTTTCT 60  
 CCAATCAAGA AATAATAATC CCTCGAGTTT AAAAAACACA AA 102

SEQ ID NO:5293

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06316

## SEQUENCE DESCRIPTION:

GATCTCANCT TCATGCCAGG CCTTGGGTTT GACAAACATG GCAACCGACT GGGGAGGGGC 60  
 AAGGNCTACT ATNATGCCTA TCTGAAGCNC TGTTTGACG ATCAGGAAGT GAAGCCCTAC 120  
 ACCCTGGCGT TGGCTTTCAA AGANCAGNTT TNCCTCCAGG TCCCAGTGAA TGAAAACGAC 180  
 ATTGAAGNTA GATGNN 196

SEQ ID NO:5294

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06317

## SEQUENCE DESCRIPTION:

GATCAAGAAG TTTGTGTACA CATAATCTCA TTTNAGATA TATAACTATT TTTNTCTTTC 60  
 AGAAGTGAAT CAAAATATTT CAAAATGCTG TCTTATGAAA CTACAATATT CTCACAGATT 120  
 AGAAAAGTTT TNCTGTAAAA GTCAGATAGT AAATATTNA GGTTTTGCAG TGTCTNTTGC 180  
 ANCTNCTCAA CTTTCTACT GTNGCACANG NGTAGCTGTG GTACTGTGCA AATNAAN 237

SEQ ID NO:5295

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06318

## SEQUENCE DESCRIPTION:

GATCACTACC TTTTCTTCTC TNATCTGCTG CCATNTGAGA TGTGGCTTTC ACCTTCCGCC 60  
 ATGATTGTAA GGCCTTCCCA GCCCGTGGN CCTGTAAGTC CANTAAACCT CTTTGTAAA 120  
 TTTAA 125

SEQ ID NO:5296

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06319

## SEQUENCE DESCRIPTION:

GATCTTACAG ACTGTATCAG TCTAATTTTT AAATTTTAAG TTATTTTGTA CAGCTTTGTA 60  
 AATTCTTAAC ATTTTATAT TGCCATGTTT ATTTTGTGTTG GGTAATTTGG TTCATTAAGT 120

ACATAGCTAA GGTAATGAAC ATCTTTTCA GTAATTGTAA AGTGATTAT TCAGANTAAA 180  
TTTTTTGTGC TTATGAAA 198

SEQ ID NO:5297

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06320

SEQUENCE DESCRIPTION:

GATCTAATTT CCCTNTTCAC ACAAACCTTA CACTTTAATC TGATGATTGG ATATTTAATT 60  
NNAGTGAACA TCATCTTGTT AGCTAACTTT AAAAANTGGA TGTAGAATGA TTAANGGTG 120  
GTATGATNN 129

SEQ ID NO:5298

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06321

SEQUENCE DESCRIPTION:

GATCTGTGCC ACTTGTGTCA GAGAAGAAGA AACACGTAGN GCAAGTTGTA AAATAATTGG 60  
TATTCCTAAC AATCCTGATG TATAATTNTT TGTTACTTTT GNTTTGAGAA CTCTACANAT 120  
AAAAGTGCTG GGACTAGATT AAA 143

SEQ ID NO:5299

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06322

SEQUENCE DESCRIPTION:

GATCTCTTCG ACTCCTACGA CCTTGGGGAC CTGTTGATTA ATTGAGTGGC CCTGCCTGCC 60  
CCCAGCAGCC TGCCCCGAC TCTACCTCCT CACAGACAGG CTGACAGCCC CTCTGCCTGC 120  
ACAGGGACAT TGGACACTAG GTGCTGCCCT CAGGGCATGG GGTCTCCTCG CCTTTCCTGC 180  
CCCAGCCGGC AGAAGCTGTG TGGGGNGNNA TGAATGGTAC GGGTGAGGAG TGGATAAGGG 240  
GTGGTCCTCA CCTNCTAAT GGAAGCTGGG CCTAGGGAGG CCCATNCAGT CTTCTGACTT 300  
CTNGACCTCT NACAAGAAGG NTGCAGGTGA GGTN 334

SEQ ID NO:5300

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06323

SEQUENCE DESCRIPTION:

GATCTGGAGC CAGCTGGCTT TGCTCCGTTT CCTGGCTAGT CTGTGCCTGG TCACCAGGGA 60  
GGCTGAGTGA GGGGCTGTGA ACAGTTGCCG GAAGCACCCC CTCCCTCCCC GGGCCGTGCA 120  
GCAGTGTCTG AGCTGTAGTG AAAGTTTCAG GGCCTGCAAA AGAAGAGGCT TGGGCACAGG 180

ACTGACCATN GCTCCAGGGG TTTAGGACCC CCAGGNCNGT GAAGGTGGGA GCAGCTCACC 240  
 ACCTTTNACG CAGGCTTTGG TATGTTCTCT NAGGCTTAGT TGATTTTGGG CCCNAAANCA 300  
 AATNCAAAAAG GTTCTGGGC CAACCTTTTG TTAANTN 337

SEQ ID NO:5301

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06324

SEQUENCE DESCRIPTION:

GATCACAGCT CCAGGACCAG TGCAGGCTGG CTGCCCTCTT TTGGCCGCGT CTGGAATAAT 60  
 GGACGCCGCT GGCAGTCCAG ACATCAATC AAAACTGAAG CTGCAGCAAT GAAGAAGCAG 120  
 TCACATACAG AAAAAAGCTA ATCATGCTCT CTACCAACTA CCATGAGGCT AGNAAGCAA 180  
 GTCAACAAAC CCCTATTATA CCTTCCACCA AATTCTTTAT CATTGTCTTT CTTAGGAAAC 240  
 AGNCATACTC ATTCATTTGA TTTANTAAGG TTTTATTTT CCAANGTNG NTGTGGNTGN 300  
 TTNGGNNNNN TTGTGGTGGT TGNNGN 326

SEQ ID NO:5302

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06325

SEQUENCE DESCRIPTION:

GATCTTTNAT TTACCTGTAC AGGAGTGTA ACTTTTNGT GNTTTTATTT TTCAATTGTG 60  
 AGAACCACTG ATTGGTATGT TCAACAAATT TGTGTATACA AAGAAATGGA TAAATCACTG 120  
 CTATATANGG GAAACTACCT TAGGAAAGAN TGTTACTGA ATGTTTATNN NATN 174

SEQ ID NO:5303

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06326

SEQUENCE DESCRIPTION:

GATCAGTGAT ATTTGATGTT AGTGTGTAC TATAGGGTGC CAATAACTCT GCCTATACAA 60  
 GATGGTGAT TTAATCAATA AACGTGTATT CTGACTGCCT TAAA 104

SEQ ID NO:5304

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06327

SEQUENCE DESCRIPTION:

GATCCTTCCG TCTCAGTCC CCAACCCAG TAGCTGGGAC TACAGTTGCA CATCATCATG 60  
 CCTGGCTAAT TTTTNNATTT TTGTAGAGGT AGGTTTCACT ATGTTGCCCT GGCTGGTCTT 120  
 GAACTCCTGG GCTCAAGTGA TTCACCTGCC TCGGNCCTC AAAGNGCTGG TGTTTACNGG 180

CATGAGCCAC TGTGTCCGAC CCANACCTAC TANTGTAAAT NGANNTTTTN TTAACNN 238

SEQ ID NO:5305

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06329

SEQUENCE DESCRIPTION:

GATCAACAGA GTGAGACCCC TGTCTATATA TTNNTTAAAT TTAAAAATA AAAGANTAAA 60  
ATTGTGTAGC TCAGTATAGT ATCAAGATTA ATCTGCCTAC TCACATTCT ACACTTTATA 120  
NNANTGTAAT AN 132

SEQ ID NO:5306

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06330

SEQUENCE DESCRIPTION:

GATCCAGCCA TNACTAACCT ATNCCNNTT TGGGGAAATC TGAGCCTAGC TCAGAAAAAC 60  
ATAAAGCACC TTGAAAAAGA CTTGGCAGCT TCCNGATAAA GCGTGCTGTG CTGTGCAGTA 120  
GGANACATC CTATTTATTG TGATGTTGTG GTTTTATTAT CTAAACTCT GNTCCATACA 180  
CTTGATAAA TACATGGATA TTTTATGTA CAGAGGTATG TCTCTTAACC AGTCACTTA 240  
TTGTNCTCTG GCAATTTAAA NGANNGTCAG TAAATTNTT TNCTGTNAA AGN 293

SEQ ID NO:5307

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06331

SEQUENCE DESCRIPTION:

GATCAAAACC CAGCAGAGTG CAAGCAGCAG TGAAGCAGGA TGTATGTGGC CTTGAGGATA 60  
ACCTNCACTG TAATAGCCTA AACACANCTC TAATTTACTT ACAGCCTTAT GTTTTGTAT 120  
TGNCTTGGTA GACTAGGTAA TTTTTTTTA AAGGNCAGGN GACGGNTATT TTAAAGNCCA 180  
ATTTGTTCTA CGTAGCATNT TAACTAGTTT TNNTGCCAGC NATGTTGN 228

SEQ ID NO:5308

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06332

SEQUENCE DESCRIPTION:

GATCCCTGAA GTTGCCCTGG TCTCTGCACC TTCTAAACCT AGTTCTTAAG AGCTTTCCAT 60  
TACATGAGCT GTCTCAAAGC CCTCCAATAA ATTCTCAGTG TAAGCTTCTG AAA 113

SEQ ID NO:5309



LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06333

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCGT CACCCNCAGA TGGGGCTGTC TAGTTGCAGG AAAACAAGCT 60  
CAGGGCTCCC ACTGAGTCTC TGTGATNGTG AGTTGTAGAA TTATTTAANN ATATGTTACA 120  
ATGTAATANT AGTAGAANTA AAGTGCACAN TAAN 154

SEQ ID NO:5310

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06334

SEQUENCE DESCRIPTION:

GATCTCTTTC CCTGTCTTGG AGGTGAAAAG TNATATCTAA GGNTNTGTTT GCAGTGACCC 60  
CTAGTTTGGG GTACACAGAC CAGTGTTCCT NATTGACAGT GTTCAATAAG GCCCCGTCAT 120  
TCTCGCCAGT NTNTTGTGT NCTTAATGGG CTCCTCCTTG AANTGTGTGT GTGTTTGTGT 180  
CAAGAGGAGT TNGTGTCTT GGTAATAAA GNTN 214

SEQ ID NO:5311

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06335

SEQUENCE DESCRIPTION:

GATCTCTNCG ANTNAATTC AATCTAGGGA AAAATGGCAG AGAAGTAAAT GGATGTNCTG 60  
GTGTCAATAG ATATGAAAGT GTTGTTGGC GACTTGCAA TCAACAAAGT TTAAAAATC 120  
GAATNNN 127

SEQ ID NO:5312

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06337

SEQUENCE DESCRIPTION:

GATCGAGAAT NACNATNTT TGTAATGGA AATACCACTA CTAAAGACAG AATGCTATAA 60  
ATAGAAA 67

SEQ ID NO:5313

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06338

SEQUENCE DESCRIPTION:

GATCTTCTGT ACTTCTGTCT TCCATAGGAC AAATNATAAG TACTACATAC CTCATCTCTT 60  
GGGTTATNAT TGTAGTCTTG CATTCTATGAT TATNAATTTA AAAATAAATA CCAATTATGG 120  
AAATTGTAAT 130

SEQ ID NO:5314

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06339

SEQUENCE DESCRIPTION:

GATCTACATN AGGAAAAGTA TAAGCCCCCT CCCTAATGGC CGCTGGGNGG TGAGGGCGGT 60  
GTGTTGTATG TCTTTGGGTG TTTGTTNNTT NATAAAGCAT ATAATN 106

SEQ ID NO:5315

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06341

SEQUENCE DESCRIPTION:

GATCTNAAAA AGAGAGAAGA AAATAAAAAG TATTATTTAT ATGTCAGTGC CAACTTTGAA 60  
GGTAAAAACAG TAGTAGTAAC TTTTGGGAGA AATTCTAAAA ACTACTTTAA AAAGAAGCGT 120  
GCACATAAAA TAANTATCTT TCTATCCAAG GCTTGTCATT TNATATGCTT TNNTTGTAAT 180  
TTTAANATNN NGCTN 195

SEQ ID NO:5316

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06343

SEQUENCE DESCRIPTION:

GATCTAATTA CTTATAGATT CTGTAGTCTN GNGAAGGNGT GGGTGACGTG ATGAGAGGTT 60  
TGAGAAATGG GTGAAATGAA ATGGGGGGAT ATGTAGGTCA AATCANATNA AAGATGATTT 120  
TTTTNATGTG AATAAN 136

SEQ ID NO:5317

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06344

SEQUENCE DESCRIPTION:

GATCAGCTTA AGNNTTACG GCTGGTGGAT AGACACTCGA GACCAGAAAT CATATTTTNN 60  
CTGAAAGTAG ATGATTTACC TGAGGATAAT CAGGAACGTT TTAATAGCCT TTNCTCTCTA 120  
AGGGAGAAGT GGACAGAAGA AGATATTGCT CCATATATTC AAGATTTGTG TGGAGAGAGN 180

SEQ ID NO:5318

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06345

SEQUENCE DESCRIPTION:

GATCGCGGTA TATAGAGATA TGCATTTTAT TTTACTTGTG TAAAAATATC GGACGACGTG 60  
GAATAAAGAG CTCTTTTCTT AAA 83

SEQ ID NO:5319

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06346

SEQUENCE DESCRIPTION:

GATCTCCTTA GGTGATGCAC AGTCCAATA CCTGCTAACC ACCGCCGAGA ACGAGCTGGG 60  
AGTGGTGGTA GCCACAGTG AGTCAGGTAT CCAGATGGTT CCCATCAGCT GGTGTGAGAT 120  
GCAGTGCCCT AAGACCCACA CTAAAGAATT CCGGAAAGTA GCCCGNGTAC AACCCGAATN 180

SEQ ID NO:5320

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06347

SEQUENCE DESCRIPTION:

GATCAGAGAA TCACAAGAGC AGCAAATGTG GTTTCATCAA GTGGGAAGAA AGCAGCAATT 60  
TAAAATANCT TTTTGGNGA CTGANTTGAG TAATAATAAA NCTTCAGTCT TTCGCTAATN 120  
ATANTN 126

SEQ ID NO:5321

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06348

SEQUENCE DESCRIPTION:

GATCTAGACG CCCCCAAATC CTTGAGATGT GGTATAGCT CAGGGTAAGC TGCTCTGAGG 60  
TAAAGGTCCA TGAACCCTGC CCCACTCCTG TCAGCCCCTC ATCAGCCTTT TCAGCAGGTT 120  
CCAGTGCCCTG ACTTGGGATA GGACTGAGTG GTAGGAGGAG GGGGAGTGGA GGGGCATAGC 180  
CTTCCCTAA TTCTGCCTTA AATAAACTG CATTGCTGAT TCAAA 225

SEQ ID NO:5322

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06350

SEQUENCE DESCRIPTION:

GATCAGCAAA TTGTTATNTT AAAAAGTTTT CTTGTTTAGG CAATTGGTA AGTGGTTTCT 60  
 AGTTATAAAC TAGCCACTGT TGATTAACCT GAGAAGGTGA AGCAGGGGAG TTCTGAAGAG 120  
 ATTACCTAGA GCTACTTAAC CCTAAGTTAA GTAAAATTTT CACTTTCATT CTTTTCATT 180  
 TCTCATAAAC TGGTTGAAAA AACACTGTAC TACCAACAAA GGTGTCAGTT GCTTGTGCTG 240  
 CCCTGTCTAT GTTATGCTCT GAATAGGTCT CGGTAAAGAT TATATGGAAG TACTATAAAG 300  
 NNTACATAAG GTAAAATACT AGTCAGANAG GGTTCAGGTT N 341

SEQ ID NO:5323

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06351

SEQUENCE DESCRIPTION:

GATCTGAAGT NCTTCCATTA TATCTATATC TGTATATGNA CATATATGTG GGTGTGTATA 60  
 TATATGNGTG TATGTATATA TATACAATTN CCTGAGAACT CACTNTTTTT TGTGAATTN 120  
 CAATAGTGTT CGCCATGTTT TCCACCAGNA TGTATAN 157

SEQ ID NO:5324

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06353

SEQUENCE DESCRIPTION:

GATCAAGTTT TGATGAAGAT GTGAAAAACN GTTGGGCAGT ACTACTCAAG CTGAACCCCA 60  
 TGCATCAGAG AAATTACACT TTTATATNTC CAAA 94

SEQ ID NO:5325

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06354

SEQUENCE DESCRIPTION:

GATCTGCCCT NCTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAC CATGCCTGGC 60  
 CAGGTCTTNC TAACTAAAAA ATAATAATAA TAATAATAAA AAANAAAAAGA NGATACTTGC 120  
 AAAATAAA 128

SEQ ID NO:5326

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06355

SEQUENCE DESCRIPTION:

GATCAAGAGT ATTNCTNTA GCTAGCTTAA AAAGAAAACA TATATTTAAT GTAAAANCAC 60  
 ATACATGGCC AAATGCAATA CTGANGAGAC AATCATCCTG TATCTTTNAT GGTTTTN 117

SEQ ID NO:5327

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06356

SEQUENCE DESCRIPTION:

GATCAATGCG CTAGTGCAGG AGCTCGGCTT CTACCGCAAG GCGGCGCCCG ACGCGCAGGT 60  
GCCCCCGAG TACGTGTGGG CGCCCGNAAA GCCCCAGAGG AAACCTCGGA CCACGCTGAC 120  
CTNTAGGTCC GGGGGCGCGG CGGANCTGGG ACCTACCTGC CTGAGTCCTG GAGACAGAAT 180  
GAAGCGNTCA GCATCCCGGG AATACTTCTC TTGCTGAGAG CCGATGCCCG TCCCCGTGGC 240  
CAGCAGGGAT GGGGTTGGGG AGGTTCTTCC AACCGACTT TTTTCCTTC CNCAAGNTCC 300  
ACTAAAATTT CCCTTCTGCN TTAATAAAAA AANN 334

SEQ ID NO:5328

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06357

SEQUENCE DESCRIPTION:

GATCAGCCAA ATTGGGCGGC CACCCCGNC TCCACCACTT TCCACCATCA GCTGCCAAAC 60  
TGGTCCCTCT GTCTCCCTGG GGCCTTGGGT TCTGTTTGGG GGTGATGACC TTCCTAGTTT 120  
CCTGACGCAG GGGNATACAG GGGAGAGGGT TGTCTTCCC CCCAGCAAAT GCAATAATGC 180  
CCTCACCCCT CCTGAGAGGA GCCCCCTCCC TGTGGAGCCT GTNACCTTCG NATTTGACAC 240  
GAGTCTGCTG TGAACCNCGC ANTCTGCTTC NCACCTNCNA TCTNTCCTNC CAGGGCCATN 300  
CCTGGGCCAG AGCAGGAGGG GAGGGAGGTN 330

SEQ ID NO:5329

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06358

SEQUENCE DESCRIPTION:

GATCAAAAA NTGTGGGTTT ATTTCTGGAG TCTCTGTTCT ATTGGTCTAT ATGTCCGTCT 60  
TCATGCTGGT ACTATGCTGT TTTATTTACT GTAGCTTTGT AATATATTN GAAATCAGAA 120  
GGTGGGATGC CTTGAGCTTT GTNCTTTTTC CTCAAAATAA AAAATNCTTT TGAAA 175

SEQ ID NO:5330

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06359

SEQUENCE DESCRIPTION:

GATCAAAATCA GAGTAATTTG GATATTCATC ACCTCGAATA TTTATCTTTC CTTTGTGTTG 60  
GGAACATTAT AATTTTCCTC TGCTAGCTAT TTTAGAATAT ATAATAAATN ATNGTCCCCT 120  
AAA 123

SEQ ID NO:5331

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06360

SEQUENCE DESCRIPTION:

GATCAAAGCC AGCCACCCCC ACCCCAACAC ACTCGGTGTC CCTTTCATCC TGGGCCTNTG 60  
TGAATCCCAG CCTNGGCCAT ANCCTCAACC TCAGTGGGCT GGAAATAACA GTGGGGNCCC 120  
TGTAGCAGTG GCAGAATAAA CTTAGATGTT NTNACAGGAA A 161

SEQ ID NO:5332

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06361

SEQUENCE DESCRIPTION:

GATCNTCTCA GNGANGNCGC TTNGGTCGCA GTTTtagggg GTTCTCGGTT TGCAGGAACC 60  
CTGGGTGCAG GTTCGCAGCC CTGTCAACCA GCTCCGAGCC GGCAGCGAAA CCTGAAGTGG 120  
ACCCTGTGGA AAATNAAGN 139

SEQ ID NO:5333

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06362

SEQUENCE DESCRIPTION:

GATCTNCTCA CCCTCGGTGA NAACAGTGTC AGCCATGCAA GCAGGACAGA ATGGTGACTG 60  
GGTGCCCTTG GTGAGCTGTG TATTCCTAG NAGGTAGAAA ACTGTGGGAA ACTGTGGCTA 120  
ATAAAACTA AGTGTGAGCG TCAAA 145

SEQ ID NO:5334

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06363

SEQUENCE DESCRIPTION:

GATCTTAAAT NACCTATTTT TAATGTGATT CATAACGTT TTNACTTAG TGGTTTAAAA 60  
TATGAAAGTA TATAACACA TTACCAAACA CTTTGGGGTA GGAGAAGTAC GCTTAGCATG 120  
TCTGTGTCAT ACCTAATTTT TTTAAAGCTA TAATGAACTG ATACACATCA ATTTANNNG 180  
NGGTTTTATT CTTTCAATGA ACACTGTATC AAAATTTTTT NATGANGTAA TGTTAGTCTT 240  
TGTGGTCAAT AGTTATTGGT AATACTACTA GTAATATGGG TNCATGGCTA TAAGATGCTT 300  
TAGCTTAGTG GTCAGTTGTT ATNCTAAGGG GTTTNAATCN AATTNGGTNG N 351

SEQ ID NO:5335

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06364

SEQUENCE DESCRIPTION:

```
GATCACAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA 60
AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCCTCCAACG TTTGGNTTGC 120
CTCCCTCCCC CTCTCTCCC TTNCTCCCTC TGATTTCTTA CAGAACCACG CTTTCATGAC 180
CATGCCCCGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTTN CNGCACACAC 240
GTGCTTCTNA ATAGCTGCAG GCTATTTCAT GAGAGGAATT TGCTCACGTT AACATNGCTG 300
TTCCCAAATG CCAGGCTGNT TTAAAGTGGT TTCCTAATTT ATAAAGGN 348
```

SEQ ID NO:5336

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06365

SEQUENCE DESCRIPTION:

```
GATCTCAATA GTCAGTTACT GATGCTCCTG AACCTATGT GTCCATTTNT GCACACACGT 60
ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGCGCCC 120
TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAAATC 180
TGGTGCTCAN TAAAGANGCC CATGGCTGGT GGCATGCAAA 220
```

SEQ ID NO:5337

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06366

SEQUENCE DESCRIPTION:

```
GATCCCAGCC ATAAAGTACC TGGGATGAAA GAAGTTTTTT CCAGTTTGTC AGTGTCTGTN 60
AGAATTACTT ATTTCTTNC TATATTCTCA TAGCACGTGT NTGATTGGTT CATGCATGTA 120
GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGGTT GTTCTATGCA 180
GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 227
```

SEQ ID NO:5338

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06367

SEQUENCE DESCRIPTION:

```
GATCTTNACT CTTGTTTCCT TTGTCCTTTT NTTCAGACAG AGTTGTACCT GCAGCAGACA 60
ACTCTGAATT AAAGCATGAA AACACAGCAA A 91
```

SEQ ID NO:5339

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06369

SEQUENCE DESCRIPTION:

GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCCTGAG GACTTCTGTT TAAAGGAGGA 60  
 CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAACTGGA GCACAGAGAC 120  
 ATGGAACCTA GCTACTTCCT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180  
 TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNGCACA GCTGANGGTC 240  
 GACTAAAACA AAGTCTGTTT TCATGNAAA 269

SEQ ID NO:5340

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06370

SEQUENCE DESCRIPTION:

GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCCATTCT 60  
 CTTCAAA 67

SEQ ID NO:5341

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06371

SEQUENCE DESCRIPTION:

GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60  
 CTTTNTCCAA GTGTCACT AAACATGCCC GGGCTTCGAT GTGCCTGGAG GATTCCCCA 120  
 CAGGGACCCA CGCACCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCTG 180  
 ATAAGCTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGA CTGTAG CTTTAAGCAA 240  
 ACGGTGTGGC ATGGGNTTGA NGTNTGGCCA CCTGGCAGNG NTGTGCAGGG TCTTGCCTTA 300  
 NNAAAGCTGG CTN 313

SEQ ID NO:5342

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06372

SEQUENCE DESCRIPTION:

GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60  
 ATATAAAGAT AGATATATAC ATTGAAA 87

SEQ ID NO:5343

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS06373

## SEQUENCE DESCRIPTION:

GATCTTTTTA TATTCTTCTA CCACACCTGG AAACAGACCA ATAGACATNT TGGGGTTTTG 60  
 TAATGGGAAT NNTATAAAG CATTACTCTT TTTNAATAAA TTGTTTTTNA ATTTAAAAAA 120  
 AGAAA 125

SEQ ID NO:5344

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06374

## SEQUENCE DESCRIPTION:

GATCAGGTGG AAATGTTTAA GCTAAATAAA TCTAGGGGTT NTTTNAACAA A 51

SEQ ID NO:5345

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06376

## SEQUENCE DESCRIPTION:

GATCTGAAGA AACACGCAG TGTNCACGCA AGCCACTCAG ACAAGCCCAG GGGTTCCTTG 60  
 GCCTTCTCAG TCAGCTAACT TTCCTGAGTT CTCCTTTGAC TTCCTAGGG AACAGTTGAA 120  
 CAAGAGATTT TTCAATCAAG NCTTTGGAAC TACGAAGATG GAAGAGATTT GAAGAGGGAT 180  
 ATNGAATGAG TAAATTAAGC AACTTTTAN TATCCTATTT CTNTAAATNT CCAGATTTTA 240  
 AAACATTCCT GTATTATANT ATCTAAAAAC AAA 273

SEQ ID NO:5346

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06377

## SEQUENCE DESCRIPTION:

GATCTAGATA TTTTCTCTT TTTCTGAAGN TACTTTCTTA AAAAATAAAT AAAATGTTTA 60  
 TAGCATTCCT NGTAAA 76

SEQ ID NO:5347

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06378

## SEQUENCE DESCRIPTION:

GATCAATTCT CTTTGCGAG GNGACCACCA ANGGACTGCA GAGCTGNCCG GGCATTTCGTG 60  
 CGTGTTTCATG ACCGAGAACT TTNCACACAG AGAGGACTTC TGCCTGACG AAGGAGCGCA 120  
 GAGCTGGCCG NGCATTTCGTG CGTGTTTCATG ACCGNGAACT TTTCACAGCT AGGACTNCTG 180  
 TCCTGACGTC TTTATNGGTA TAATAGTTGC GTTAAAGNCT GCAGACTTCA AGTTTATATT 240

TCTCTTTATT GTAACACTCT GTGCANNNTT TGATTNCTAG TTTATTNCA TTGTN 295

SEQ ID NO:5348

LENGTH:416

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06379

SEQUENCE DESCRIPTION:

GATCGACCTG AGCACAGTGG ACCTGAAGAA GCTCCGAGTT AAAGAGCTGA AGAAGATTCT 60  
 GGATGACTNN NNGGAGACAT GCAAAGGCTG TGCAGAAAAG TCTGACTACA TCCGGAAGAT 120  
 AAATNAACTG ATNCTAAAT ATGNCCCAA GGCAGCCAGT GCACGGACCG ATTTGTAGTC 180  
 TGCTCAATCT CTGTTGCACC TGAGGGGGTA AAAACAGTTC AACTGCTTAC TCCCAAANCA 240  
 GCCTNTTTGT AATTTATTTT TTAAGNNGGC TCCTGACAAT ACTGTATCAG ATGTGAAGCC 300  
 TGGAGCTTTC CTGGATGATG CTGGNCCTGC AGTACCCCA TGAGGGGATT NCCNTTCCTT 360  
 CTGTTTGCTG GTGTACTNCT GGGGGNGNGA AGTGTGTCTG GGGNNTTTT TNNTGN 416

SEQ ID NO:5349

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06380

SEQUENCE DESCRIPTION:

GATCTGAAGA AGTGGTTAAG ACCAAGAGTT TATGTACCTT TTAAACAAA GATTAATAAA 60  
 TTTTGAAGA AGTGATGAGA CAAAGAAA 88

SEQ ID NO:5350

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06381

SEQUENCE DESCRIPTION:

GATCAGAACA TGAACTTTT TTTAAAAGA AGATTTGAGC ATTTTCCTGT AATCACATCA 60  
 AAATNATGTT TTCTGTGTAA AGCGAGATAC ATATTNCTNA TAATGCAGCA TTGTGAGAAG 120  
 TCAGTTCGGC CCACTGCACC ANCACTGTCG TATCCTTGTT AAAATGGTGT GTACCTTACA 180  
 ANTTATAATT TATGTGCCAG GTTCGTTTTG TNCTTAATTT GCTATTATTG TGCTGTGTNT 240  
 ANCCCCTGTN NNCTNNGTN 259

SEQ ID NO:5351

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06382

SEQUENCE DESCRIPTION:

GATCTTATAA AGTACTTGTG TGGAGCTTTG ATTCCACAGA ATAAAAGATA TTTTGTGTGT 60  
 AGAAA 65

SEQ ID NO:5352

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06383

SEQUENCE DESCRIPTION:

GATCTCAGCC CAGGACAAGG TGGGAATNAG TCAAGCCTGG ACTCTGGCCC CCCTGCCTGG 60  
CCAGTAAGAA GGGCAAAGTC CAAGGGGAGG GATGAGGNAG GGGCCAGATG GGGTCCTGGA 120  
GGAAGAATTN CCTGGCAAAA GCCATTGGAG CTTGTNTGTG TGTCTTTGGT GATGACATNT 180  
GTTGTGAGGG TAGATGGGAA CCATNTTAAA AGGATGAAAT GTGAAA 226

SEQ ID NO:5353

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06384

SEQUENCE DESCRIPTION:

GATCCTTTTG TAAGGNCCTT CCTGAAGAAG AAAGGTGGCA AATACAGTNT TCAGTTCAAG 60  
TTGCCCGACG TGTATGGTGT ATTCCAGTTT AAAGTGGATT ACAACCGGCT AGGCTACACA 120  
CACCTGTACT CTTCCACTCA GGTATCCGTG CGGCCACTCC AGCACACGCA GTATGAGCGC 180  
TTCATCCCCT CGGNCCTACCC CTACTACGGC AGCGGCTTTC TNCATGATGC TGGGGGCTCT 240  
TTCATCTNTC AGCATCGGGC NGGCTTTGCA CATGNAGGGN GAATGNTGGA NGTCCGANTT 300  
TTNGN 305

SEQ ID NO:5354

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06385

SEQUENCE DESCRIPTION:

GATCTACATT CTTCAAAAAA AAAAATTGGC TTAAGTGTTC CATCTTNAAG TAGCATTTTG 60  
CTGCCATTTG TATTGGGCTG AAGAANTCAC TATTGTGTAT ATACTCAAGT CTTTNAATT 120  
TCCNCCTTTT CATAAATNCT CTTGGNCATN ATTGGGCTTG CAGAGTTCCC TTATNCTGGG 180  
GATTACAATG CTTTATCGT TTCAGGCTTC ATTNNGCTT CAAANCAAGC TGGGCACACT 240  
GTAAANCAAT GATTTTGCAG ANCCTTTGGT TTTGGACAGT TTCATTTTTT NGGATTTGGG 300  
ATAGATTNCA TAGGAGTATG GAGTATGCTG TAAATAAAAA TNCANGCTAG TGCTTN 356

SEQ ID NO:5355

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06386

SEQUENCE DESCRIPTION:

GATCTTTAAC AGCTCCTTTA CTTGCNCTTT GTAAAAAAA ATAAAATTAG NTTGAATTAT 60

TCTACCTTTG TAAA

74

SEQ ID NO:5356

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06387

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGCGCC TGGAGCAGCA 60  
 GAATAAGNTC CTTAACTTAA AATAAATTAA TTTTTCAAA AAACATAAAT CTGGAAGTGT 120  
 TGTCTCTATA TTNATAACA AATACAGTAT ATNTNATNTA TAAGCCATGG TCTACTGATA 180  
 CTGTATGAGG ACTTNCCTGA N 201

SEQ ID NO:5357

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06388

SEQUENCE DESCRIPTION:

GATCAGAACG TTAACATATG AACCTGCAGA AATCTGGTAA GACTTAAATT CAGTGTGAGG 60  
 AATAACTCTA GTTCTCTCCT ATGAGCATT TCTAAAAGCC ATCTGATTG GCATTCTTAC 120  
 TGGAGCTGCA GACAGAAATC TACAAAGNCN NAAGTAAACA AAATTAAGTT ATTATTCCAC 180  
 TGTTAGGAAT GGAAATAAAC TTGTGAAGTC TGTTTATTTT GAAGTATTGG TGAAGTAGGC 240  
 TTGCTAATNG GGAGCTGCAG CAGTTTGTGT TTAATCCAGT TCATCAGCTT AGGTCATTG 300  
 AAAGNTATAA GAGCTTAAGG CAAGAAAGGA ATACCATGGG ATTCTATTN AGGGCCACCA 360  
 GNCCATTCTT GGNAAGCAGC TCCNGTTTGG TTTTCCAGCT GTCAAACTN 409

SEQ ID NO:5358

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06389

SEQUENCE DESCRIPTION:

GATCTGCCCC TNTCGGCCTC CCAAAGTGCT GGGATTACCG GCATGAGTCA CTGCGCCTGG 60  
 CCGACAAAGG CTTTGATATC AGAATGAACT GTCAAGGGAG GTGCTGGAGA GGGATTAACC 120  
 TGTGCAGAGN CCAANNGGTA TGGAANNAAA ANTGGGATTG GGACTAGGTG NTCTN 175

SEQ ID NO:5359

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06390

SEQUENCE DESCRIPTION:

GATCAGGCTC AGGCGGCCCC ACTCACCCAC AGCATCCGCC GCCACCCCTT CGGGTGTGAG 60  
 CGCTCAATAA AAACAACACA CTATAAAGTG TTTTAAATC CAAA 104

SEQ ID NO:5360

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06392

SEQUENCE DESCRIPTION:

GATCTTTCCC AAGAGAAGGG GAAGCACTCG TGTGCAACAG ACAAGTGA CTATCTGTGT 60  
AGACTATTG CTTATTTAAT AAAGACGATT TGTCAGTTAT TTAAAA 106

SEQ ID NO:5361

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06393

SEQUENCE DESCRIPTION:

GATCTACGCT GCCTTCAAGG AAGTGCTGGG TTCGGGCATG CACCACCACC TCCAGAACAA 60  
TGAGCTACTC CGTGACATCT TTGGCCTGGG CCCTGTGCTG TTGCTGGATG CCACTGCCCT 120  
GAAGGCCTGC AAGGTTCCAC GCTTTGAGAA GCACCTGTAC AATGCTGCTG CCTTCAAAGC 180  
CCGGACCAAG GCTCGAAGCC GTGTGCGGGA CAAGCGGGCA GACATCCTGT GAAGCAGGAC 240  
CTGCTGAAGA GGAGACTTTC TATGCCCTTG GTCCGTATTT TTAACAGAAG ACAGTGCAAC 300  
AACTGGTCTT CACCAGTATT TGTCACTTA TTTTTTTAA TGTCAAACC AAAACAGAC 360  
ATGGGGTTGG GTAGCTGGGG GN 382

SEQ ID NO:5362

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06394

SEQUENCE DESCRIPTION:

GATCCNATCA TTCCTTAAAC ATANTACCCT TNGTCTTGGA GTAGAATACT AAGTTAGAGT 60  
TAGTGGATTT CTAGTTTAGG AGAGGAGCTC AAAACTATAA TCTNTAACAA ATTGAAAAAT 120  
GAAATAGGGT GTTTTCCCTT TTTGTGCACA CCTACATNAC CTTAAGAAAT NNCCTTCCAT 180  
AGACAGCTGC CTCAAAGGGA AATCCTCTTT AAACCGTAGT TGGCGCAGAG GTCAGTCCTA 240  
GTCGGAGCTT AGGAGGTGCG GNGACGCTCA CATCGTCTGG ACTTGAGTCG NCACTGGATT 300  
GTGGCANCAN NTTNGCTCA TGNGTCAAAA ATTNNGCAA TTTCTTTTGG ATTN 354

SEQ ID NO:5363

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06395

SEQUENCE DESCRIPTION:

GATCCAGGGC CTCCCCGCCT TCCTTCTTCC TTTTATATA CAATTTGTTA TTGTCAAATA 60  
AAAGTAGGAA ATATTCAAA 79

SEQ ID NO:5364

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06396

SEQUENCE DESCRIPTION:

GATCTTTGTG GCCAAGGAGC TGCTATAGCC TGGGGTGGGG TCATGCCCTC CTCTCCCATT 60  
GTCCCTCTNC CCCATCCTCC AGCAGGGAAA ATGCAGCAGG GATGCCCTGG AGGTGGCTGA 120  
GCCCTGTCT AGAGAGGGAG GCAAGCCCTG TTGACACAGG TCTTTCCTAA GGCTGCAAGG 180  
TTTAGGCTGG TGGCCAGGA CCATCATCCT ACTGTAATAA AGATGATTGT NAAATAAA 238

SEQ ID NO:5365

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06397

SEQUENCE DESCRIPTION:

GATCCTTGTC CGTGGCAACC TTAAACGTGT GCTGCAGTGC TGATGTATTT ATAGGCTTAG 60  
CATGTCTGCT TTATTAGTTA TCCTGGAAAG AATGCTATTC AGTTTTTTT TTAATGTCTA 120  
CATCANGGAA TGAATGCTAA ATNAGCCCAT TTAGCAGCCT GAAATCAAAT NCTGCATTN 180  
TTTTTTNAAA CTCTTGGTAG CAAAAGAAAA AGCTGATTAA ANTATGATTG TGTACAATG 240  
ACTAAAGGGT TANCTNCTCA TTAATTCTAA ATNCTTCAAA ATGNACAAGC ATCATAATAA 300  
AGGCTTTTGA TGNGAANTAA A 321

SEQ ID NO:5366

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06398

SEQUENCE DESCRIPTION:

GATCTACAAG TCAGTGCCCT GTATGCTCTC CAGGTGCACT GCTATAACAG CAACTTCCCA 60  
AAAGGCATGT TACTTCGCTT TTTTGTGCAC TTCTATGACA TGGAAATTAT TGAAGAAGAA 120  
GCTTTCTTGG CTTGGAAAGA AGATATAACC CAAGAGTTTC CGGGAAAAGG CAAGGCTTTG 180  
TTCCAGGTGA ATCAGTGGGC TAACCTNGTT AGAAACTGCN GAAGAAGAAG AATCAGAGGA 240  
NGAAGCTGAC TAAAGAACCA GCCAAAGCCT TAAATTGTGC AAAACATACT GTTGCTATG 300  
ATGTAACTGC ATTTGACCTA ACCACTNGCG NAAANTNATT CCGNTGTAAT GTNTTCACAA 360  
TATTTNAAAG CAGANGCACG TCAGTTTNGG NTTTCCTTCT GCANAAAGN 409

SEQ ID NO:5367

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06399

SEQUENCE DESCRIPTION:

GATCCTCAGT ATAGCCGGTG AACCCCTGATA CCAGGAGCCT GGGCCTCCCT GAACCCCTGG 60  
CTTCCAGCCA TCTNATCGCC AGCNTCCTCC TGGACCTNTT GGCCCCCAGC CCCTTCCCNA 120  
CACAGCCCNA GAAGNGTCCC AGAGCTGACC NCACTCCAGG ACCTAGGNCC AAGCCTN 178

SEQ ID NO:5368

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06400

SEQUENCE DESCRIPTION:

GATCATTGTA ATATATTAN TTGTATATNA AGCATGACTA CTTTAAAGTNT TAAATAAACT 60  
GCAATAATCC TTAAA 75

SEQ ID NO:5369

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06401

SEQUENCE DESCRIPTION:

GATCAGTGNC TGGCACCAGA CACTTCTGGG GATGGTACAG GGTGTGACAA CATGACCTGC 60  
ATCATCATTT GCTTCAAGCC CCGAAACACA GCAGAGCTCC AGCCAGAGAG TGGCAAGCGA 120  
AAACTAGAGG AGGTGCTCTC TACTGAGGGG GCTGAAGAAA ATGGCAACAG CGACAAGAAG 180  
AAGAAGGCCA AGCGAGACTA GCAGTCATCC AGACCCCTGC CCACCTAGAC TGTTTCTGA 240  
GCCCTCCGGA CCTGAGACTG AGTTTGGTC TTTTCCTTT AGCCTTAGCA GTGGGTATGA 300  
GGTGTGCAGG GGGAGCTGGG TGGCTTCACT CCGGCCATT CAAAGAGGGG TCTN 354

SEQ ID NO:5370

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06402

SEQUENCE DESCRIPTION:

GATCACTGGA ATGTGGGGAT TCTGAAACAG AAATGAAACT GTCCTTTTGA CAACTCTCTT 60  
ATATAATAAA GTATCACCGG CTTGTGTATG AAA 93

SEQ ID NO:5371

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06403

SEQUENCE DESCRIPTION:

GATCATGCAT TATCTTTATA ATTCAAAAGA ATTTATATAT ATGTAAAGGA GGAGAAAATA 60  
AAAAAAATTA TAATCTTAAA 80

SEQ ID NO:5372

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06404

SEQUENCE DESCRIPTION:

GATCATNTTG ATAATGCTCG GAATATTTN AAATGTCCAT TCCGCTGTGT TGATTGAGGA 60  
CGTTCCCTTC ACGGAGAAAG ATTTAAGAA TGGCCCCCAG AACATATACA ACCTTTACGA 120  
GCAAGTCAGC TACAACGTGT TCATCGCTGC AGGCCTTTAC CTCCTCCTCG GAGGCTTCTN 180  
TTTCTGNCAA GTTCGGCTCA NTAAGNGCAA GGANTACATG GTGCGCTAGG GCCCCGGNGN 240  
GTTTCCCCGN TCCAGCCNCT TCTCTATTTA ANGACTGCNN GCACCGTGTC AN 292

SEQ ID NO:5373

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06405

SEQUENCE DESCRIPTION:

GATCCTNCTG GCCGAGCTCG AGCAGCTCAA GGGCCAAGGC AAGTCGNGCC TGGGGGACCT 60  
CTACGAGGAG NAGATGCGGG ACTGCGCCGG NAGGTGGACC AGCTAACCAA CGACAAAGCC 120  
CGCNTCGAGG TGGAGCGCGA CAACCTGGCC GAGGACATCA TCGNCTCCG GGAGAAATTN 180  
CAGGNNGGAG ATTN 194

SEQ ID NO:5374

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06407

SEQUENCE DESCRIPTION:

GATCCTGGAT TCACTCACTC ACTCATTCCT TCACTCATCC AGCCACCTAA AACATTTAC 60  
TGACCATGTA AA 72

SEQ ID NO:5375

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06408

SEQUENCE DESCRIPTION:

GATCACGCAC GAAGGTACG AACTGACCCA GATTATCGCC GACGTGTCCC AGGACCCAC 60  
GTTGCCGCGG ACCGAGGACC ACCCGTGCCA AAAGTGCGGC CACAAGGAGG CTGTGTTCTT 120  
CCAGTNACAC AGTGCGCGGG NCGANGACGN CATGCGCCTT TACTACGTGT GNACAGCCCC 180  
ACANTGNNGC CACCGCTGGA CCGAGTGNCC TNCTNTGTN 219

SEQ ID NO:5376

LENGTH:65

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS06409

SEQUENCE DESCRIPTION:

GATCCAACAA GAACATTTCC AAAAGTATCT AGGTGTTCTC AAATAAAAAG CTTTCTTTGC 60  
ACAAA 65

SEQ ID NO:5377

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06410

SEQUENCE DESCRIPTION:

GATCTGCTAA TGCTTTTCTAG GAGTCTGCCT GGAAACTTTG ACATGGTTCTN TGTCTTTTACT 60  
CAAAATCCAA TAAACAAGG TAGTTTGGCT GTGCAAA 97

SEQ ID NO:5378

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06411

SEQUENCE DESCRIPTION:

GATCCCAGAG AGCANCTTCA GTGACAAACA TATCCTTTCA AGACAGAAAG AGACAGGAGA 60  
CATGAGTCTT TGCCGGAGGA AAAGCAGCTC AAGAACACAT GTGCANTCAC TGGTGTCCACC 120  
CTGGAATAGG CAAGGNATAA CTCTTCTAAC ACAAATAAG TGTTTTATGT TTGGAATAAA 180  
GTCANCCTTG TTTCTACTGT TTTAAA 206

SEQ ID NO:5379

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06412

SEQUENCE DESCRIPTION:

GATCACTTAA ATGATTTTNT GGTGATTCGT GCCATTGCTT TTTTATTTAA AAGAAAATTT 60  
TGTAATTAAT TGCCTTTTTC TAAA 84

SEQ ID NO:5380

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06413

SEQUENCE DESCRIPTION:

GATCACACCA GAGTACATGT CTCTGCCTCT NTTTTCACTG TGGCTTTGGA CAGGAATATA 60  
TGAATAANTC ACTGCCATAC AGGTTTTCCA ATACACAAGT GCTAGAAAAT ACACACAATT 120  
CCCCAAA 127

SEQ ID NO:5381

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06414

SEQUENCE DESCRIPTION:

GATCAAAAAT GCAACTGAGA AAATNATGGC TCTTGTGCT GAGCTGTCCA TGAAACAAGC 60  
CCTAACCATT GAACTCCAAA AGGAAGTCAG GGAGAAAGAA GACTTCATCT TCACTTGCAA 120  
TTCCAGGATA GAAAAAGGTC TGCCACTCAA TAAGGAAATT GAGAAAGANT GGTGAAAGT 180  
CCTTCGAGAT GAAGAAATGC ACGCCTTGGC CATCGCTGAA AAGTCTCAN 229

SEQ ID NO:5382

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06415

SEQUENCE DESCRIPTION:

GATCCCTAAC TGTTCCCTTA TCTGTTTCT ACCTCCTCCT TTGTTTAATA AAGGCTGAAG 60  
CTTTTGTAA A 71

SEQ ID NO:5383

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06416

SEQUENCE DESCRIPTION:

GATCACTTAC AAATTTTTTG AATAACACAA AATCTCATTC TACCTGCAGT TTAATTGGAA 60  
AGATGTGTGT GTGAGAGTAT GTATGTGTGT GTGTGTGTGT GCGTGCACGC 120  
ACGTCTTGAG CAGTCAGCAT TGCACCTNCT NTGGAGAAGG GTATTCCTTT ATNAAAATCT 180  
TCCTCATNNN NGNTTGTGCT TCAGTTGGTT TTCAATTNCT TCACTGGCCA GAGAN 235

SEQ ID NO:5384

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06417

SEQUENCE DESCRIPTION:

GATCTTCCCT CTCTGAACA GCAACTCCCC CCAACTCATA CACTGCCGTT TTCAGGGTAA 60  
GCGGCCTTCA CCCCTAAGTG AAAATGTTAG TGAACATAAG GAAGGAGCCA TTCTTGGAAC 120  
TGGACGACTT CTGAAAAGTG GAGGACGAGC ATGGGAGCAA GGCCAGGACC ATGACAAGGA 180  
AAATCAGCAC TTTCCCTTGG TGGAGAGCTA GGCCCTGCAT GGCCCCAGCA ATGCAN 236

SEQ ID NO:5385

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06418

SEQUENCE DESCRIPTION:

GATCCAGTAC TTGGCAGCCA TAGTTTAGAC AATATTGTTC AGTGCTGTGT TGCTNNCATG 60  
TTAACAACAA AACCTTTTAG AGGNCCCACA AATCATNGGT ATNGGACACA GGTCCGAGGN 120  
ATCCAGAGC ATCAN 135

SEQ ID NO:5386

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06419

SEQUENCE DESCRIPTION:

GATCAGCTCG CACAGAGGTT GTCTGCAAGC AGTGTGAAGC TCATCTAGGT CACGTGTTTC 60  
CTGATGGACC TGGGCCCAAT GGTCAAGGT TTGCATGAA CAGTGTGGCT TTGAAGTTCA 120  
ANTCAAGGGA AACTGACCA TCTCAAGAG TCCCGTTCCC TTGCCACCCC TTCACGTGCA 180  
CCCTCAATT CCACAATTCA CTTGAATGAC TTGNTTATT NGCAATAAAA CTGGGCTGAA 240  
TTTGCTGCTG TCTCCAAANA N 261

SEQ ID NO:5387

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06420

SEQUENCE DESCRIPTION:

GATCATAGAC ATGATTATAT GTGAGTATCA TTAATCATT GTTTATAGCA NTTNCTCTTT 60  
ATTCCAATAT TATAATAATC CNCACCTCTAC AATCATAACC TAGGAAAAAC CAGGCCATAC 120  
AGAGATAGGA GCCGAGGGGN CATAGTGCGA AGTGGCCAGA AGACAAGAGT GTGAGCCTTC 180  
TCTTATGCCT GGACAGGGCC ACCAGAGGGC TTGGTCTAGC AGTAACACCA GTGTCTGGGA 240  
AGATGCCTGT TGCAAAGTGG ACCATGGTCT AGCGGGGGGC ATCAGTGTCA NGGTANNGAN 300

SEQ ID NO:5388

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06421

SEQUENCE DESCRIPTION:

GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA ACGGAGAGGC 60  
CAGCAAGTCT CAGGAAATGG TGCATTGGT GAACAAGGAG TCGTCAGAAA CTCCAGACCA 120  
GTTTATGNCA GCTGATGAGA CAAGGAACCT GCAGAATGTG GACATGAAGA TTGGGGTGTA 180  
ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT TACAGGGAGC 240  
TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGGAATC TTTTGTGAN 299

SEQ ID NO:5389

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06422

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAGGTGCT GGGATTGCAG GTGTGAGCCA CTGTGCTCGG 60  
CCTTATTTAT ATTTTATATA TTGTTGATAT GGTGAATT ATGTATGCCA TTAAATTATT 120  
TGTTTCTATT TAAA 134

SEQ ID NO:5390

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06423

SEQUENCE DESCRIPTION:

GATCAACGTC CTCCATGAGC ATGGNATAGT CCACCGTGAC ATTAAAGGTG CCAATATCTT 60  
CCTTACCTCA TCTGGTTTAA TCAAACTGGG AGATTTTGA TGTTCAGTAA AGCTCAAAAA 120  
CAATGCCAG ACCATGCCTG GTGAAGTGAA CAGCACCTG GGGACAGCAG CATACTGGC 180  
ACCTGAAGTC ATCACTCGTG CCAANGGAGA GGGCCATGGG CGTGGGCGCG ACATCTGGAG 240  
TCTNTGGGTG TGTTGTCATA GAGATNGTGA CTTGGCANGA GGCCTTGGCA TGAGTATGAG 300  
NAN 303

SEQ ID NO:5391

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06424

SEQUENCE DESCRIPTION:

GATCCAGAAG AAGTGACCTG AAGTTTCTGT GCAAACTNC AACTAGGCA ATGCCATTTC 60  
AATGCATTAC TAAATNACAT TTGTAGTTCC TAGCTCCTCT TAGGAAAACA GTTCTTGTGG 120  
CCTTCTATTA AATAGTTTGC ACTTAAA 147

SEQ ID NO:5392

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06425

SEQUENCE DESCRIPTION:

GATCAATTTC ACAGACAGAT GGNGTGTATG CCCCTCCCAN GTTTGACTTC ACACACACTC 60  
ATAACTTTCC AAATGAAGCC CCACAGTATA GCGCATATTT TNGATATTTT TGTGAATNCC 120  
ANNAGGAN 128

SEQ ID NO:5393

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06426

SEQUENCE DESCRIPTION:

GATCCCTAGG AGCTGNCCTN CTTCCAGCCA NTGCCAGGAA CCAGCACTCC ATGAAGATAA 60  
ACTCTGGGCC CGACCACCAG CAGGNCCTGA CGACCTGAGG TGACCCTNGG CCTTTCCCCC 120  
NN 122

SEQ ID NO:5394

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06427

SEQUENCE DESCRIPTION:

GATCACAAAT TTTGATATGT GCTATACAGG AAATAAAGTG TTATGATTGA GAATAAA 57

SEQ ID NO:5395

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06428

SEQUENCE DESCRIPTION:

GATCTGAAAT CTTCACTAGG TTGATGTGGT TTCCTCTGCA GTGATTTTCC TAGGAAGTTC 60  
AAATTTGACA GCGAGTTCAG CTCAGCTGTG GCCCTCTGCC CTTCCAGCTG TGCCTAGCAA 120  
GCAAAACCCA GGNAAGAAGC AGTNGCCTCC TGGCCTTACA TACAGAATGC CTGGACAAGA 180  
GAGAACTTGC TCGGNCCTGC TTTGTATTTT AAAACACAGC TTGNGAGTTC AGAGTTGGTG 240  
GTTTGCTCAC TTAGCGGTTG TTANGNTGGC TTGAAAAGTT TTCATTATGA TACACTGGGT 300  
ACCCTGGGCT TNGAATGTTN NCAACTTNGG NNNATCTNAT GGTACCTNT GATTANNAN 359

SEQ ID NO:5396

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06429

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGAGTCA CCACGCCCGG 60  
CCCTGNTTAT CAATCTTCAA TATTTTGTAT TTTGAGCACT TTGTTGGATT TGTTATTTAG 120  
CACATGTATA CATTGTTTTA TTATAATATT GTGTGTAATT TATTTCTGAT TAATTTTATA 180  
TCCTTCCTTC ACATTTCAAA TACTTCTAAT TAAAAGCAGA CTGTTCAAAA AANNNNNGNN 240  
NGNNNN 246

SEQ ID NO:5397

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06430

SEQUENCE DESCRIPTION:

GATCTGGCTG AGGGCTCAGG ACACAGGCCC AGCCACCCCC AGGGGCCTCC ACAGNCCGCT 60  
GCATGACAGC NATACAGTAC TTAAGTGTCT GTNTAGACAA CCAAAGANTA AATGATTCAT 120  
GGTTTTTTTT AAA 133

SEQ ID NO:5398

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06431

SEQUENCE DESCRIPTION:

GATCCTGAAC CAAATTTATA GCAATATAAT TAGTGTNTNT CTAAGGCATT ACTCATCAA 60  
AAAATTGCTG CAGTCTTTAC AGTTGAATAA ATAAAAACAA CTGCATAAAT ATGCCCAA 119

SEQ ID NO:5399

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06432

SEQUENCE DESCRIPTION:

GATCACCACC TGTAGAAACT GTTCTTCCTC TGTGAAACTA ACGGCCTGCT GGTAATAAAA 60  
GTAGCTACCA TTTCTGAAA 80

SEQ ID NO:5400

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06433

SEQUENCE DESCRIPTION:

GATCACTCAT TGCTAATTT GTCTGTACA GCTTATGTAA TATTNNATG GTGGAGACGG 60  
ACTCTGTGTG CTCAGGGCCT TGTCTCTAGG AAGATTTTGT CAATCCAAA TACAGTTTG 120  
AAGATTCAA 130

SEQ ID NO:5401

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06434

SEQUENCE DESCRIPTION:

GATCAACTGA TAAGTTGCCT TATGTCACCA TGGGTTCTGG CTCCTTGGCA GCAATGGCTG 60  
TATTTAAAGA TAAGTTTAGG CCAGACATGG AGGAGGAGGA AGCCAAGAAT CTGGTGAGCG 120  
AANCATCGCA GCTGGCATCT TCAACGACCT GGGCTCCGGA AGCAACATTG ACCTCTGCGT 180  
CATCAGCAAG AACAGCTGG ATTTCTCCG NCCATACACA GTGCCCAACA AGAAGGGGAC 240  
CAGGCTTGGC CGGTACAGGT TGTGAGAAAG GGGACTACTG CAGTCCTCAC TGTGAAANTN 300  
ACTCCTCTNG AGATTGAGG TTNTTGAAG AAACANGTCC AAACAATGGA CCCTTCCTG 360  
AATTGGCATC ANTGGTNNN 379

SEQ ID NO:5402

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06435

SEQUENCE DESCRIPTION:

GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60  
AATTCCAGAA AGTGAAGTCA TATTTCTAAG GTTAAGATTG CCTTTTATTG CACCTAGAAT 120  
AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCGTTT TNTGTTTGT TTTTAAATGT 180  
AAACTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240  
CACTTGNAAG ATTAAGGAT TTGTTTAAAN NANGGANNAG GGGNGGTGGT TNGGTNN 297

SEQ ID NO:5403

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06436

SEQUENCE DESCRIPTION:

GATCAAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60  
TGTGATTAAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTTAAT 120  
CTNTTCTTAT TTTTGTACTT TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180  
CATAGTTGTA GACATGGTAC ATTCTGGGGA AACAACATTT NTNTGTNGCC TTTACTGTTT 240  
GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294

SEQ ID NO:5404

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06437

SEQUENCE DESCRIPTION:

GATCCTCACC NCTTGGAATT AAAATNCTTG TCACTCAGG CAAGCCTACA GTTGCAACC 60  
AAGTCTAGGG TTTCTGTAA TCAANGNCGT TTTTCANTT AAA 103

SEQ ID NO:5405

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06438

SEQUENCE DESCRIPTION:

GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60

SEQ ID NO:5406

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06439

SEQUENCE DESCRIPTION:

GATCATACCN ATAAAAATAA TNCCAAACAC CAAATATGAA TTTTATGAAT GTACACTTG 60  
TGCTTNACAT TAAAAGAAAN AACACACAA A 91

SEQ ID NO:5407

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06440

SEQUENCE DESCRIPTION:

GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAACTT NAGGAAGGGA ACCTGCCTGG 60  
TTGGNTGCTA CTTCTGATTC ATTGTCCTTN TCCCTNTCAT AAGTNCCN 108

SEQ ID NO:5408

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06441

SEQUENCE DESCRIPTION:

GATCTTATGT TTAAGAGAT TCTGTTATTA GCACCATGAA CTCGTACTAT GAAATNTTTA 60  
AGCCTTTTAT TTTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120  
CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180  
GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240  
TGTANAAGTC GAGGTTTTGG CTTGGCATTG AGGGTGACAT GGTGGTGCTA AATTGTTTTC 300  
CNTTTAAAAG GCNTTCTATT N 321

SEQ ID NO:5409

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06442

SEQUENCE DESCRIPTION:

GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTNCTTGCC 60  
AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTGTCTC CNCCTTTAAC TGAGTCATCA 120  
TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180  
GGATGGGACT GGTCTGTGTT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240  
GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTAGGNAT 300  
CTCTTTTGA ATTTGGGAGC ACGATGNCTC TNGAGTTTGA GCTATTAAAG NACTNCTTGG 360  
CACATTAANA AAANANAAAT GNGGTNNGNN 390

SEQ ID NO:5410

LENGTH:197

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS06443

SEQUENCE DESCRIPTION:

GATCCCAGGG AAATATCAGC CTTGGGCAAC TGCAGTGACC AGGGGCACCG GCTGCCCACA 60  
 GGGAAACACAT TCCTTTGCTG GGGTTCAGCG CCTCTNCTGG GGCTGGAAGT GCCAAAGCCT 120  
 GGGGCAAAGC TGTTTTTCAG CCACACTGAA CCAATTACA CACAGCGGGA GAACGCAGTA 180  
 AACAGCTTTC CCACAAA 197

SEQ ID NO:5411

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06444

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCCTGAT TGAAGGCTTT GCCACATGCT GGAAGGCCCC 60  
 CTTCCAGGAA GATGGGGGTC ATTAAAGGAA ACTNAACATT GAAA 104

SEQ ID NO:5412

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06445

SEQUENCE DESCRIPTION:

GATCACCTGA ACAATCTAGA TGTGGACAAA ACCATTGGGA CCTAGTTTAT TATTGGTTA 60  
 TTGATAAAGC AAAGCTAACT GTGTGTTTAG AAGGCACTGT AACTGGTAGC TAGTTCTTGA 120  
 TTCAATAGAA AAATGCAGCA AACTTTTAAT AACAGTCTCT CTACATGACT TAAGGAACTT 180  
 ATCTATGGAT ATTAGTAACA TTTTCTACC NNGNNGTCCG TAATAAACCA TACTTGCTCG 240  
 TAAA 244

SEQ ID NO:5413

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06446

SEQUENCE DESCRIPTION:

GATCTNAGAA AANGCACCAC GTNAGCTTAC TAANTNATAA TATCTGTTTC TACTACGGAT 60  
 TTAGGCAACA GGACCTGTAC ATTGTCACAT TGCATTATTT TTCTTCAAGC GTTAATAAAA 120  
 GTTTTAAATA AATGGCAAA 139

SEQ ID NO:5414

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06447

SEQUENCE DESCRIPTION:

GATCGGGGTC CATGGGCCCA CCACCCCTG CAAGGAGGTC TCCATGAAGC ATGTAGGCAA 60  
 CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNC TGGCTGTGAA 120  
 GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTC ACAGTGCCTT AAAACAGTTT 180  
 TCTCAAATCC TGGAAA 196

SEQ ID NO:5415

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06448

SEQUENCE DESCRIPTION:

GATCCATTAA TCTGCTAATT GGTTCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60  
 TACCATAAA 69

SEQ ID NO:5416

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06449

SEQUENCE DESCRIPTION:

GATCTAGTAA AGTGTTTTAG AACCCCTTTT TATCCCATGC ACCATTCAGT AACATAAAA 60  
 ATCACAATTC TGCTAATGTC ATTTGGAAC TCAAAATAAA TATCTTGTCT AAAACAAA 119

SEQ ID NO:5417

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06450

SEQUENCE DESCRIPTION:

GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTTNN 60  
 AGGCTCATTT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120  
 AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180  
 ACACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTNTNG NCNNTATGCG 240  
 TATATTTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCATT 300  
 CTCAGNGN 308

SEQ ID NO:5418

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06451

SEQUENCE DESCRIPTION:

GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60  
 GGGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120  
 CCAGTGCCAT CCAGAAGAAA TCCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGGTTAGCTC 180

TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTCCTCCAT GCTTGTGAAC TGCACAACTT 240  
 GAGCCTGACT GTACATNTTT TGGATTTGTT TCATTANAAA GAAGCACTTT AAA 293

SEQ ID NO:5419

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06452

SEQUENCE DESCRIPTION:

GATCCTGGNA CATTTTCATAA GCTTGGGTAA AAAAAATTTT TGTTATNNTC CATGCACAAT 60  
 AAGGGAAATG TTTTAATTGG CTTTNGCCTT CCTGCTTTAC AACAGTTCTG GCCTCAAGTT 120  
 ACCAGGTAGC CTGAACCTTG NTTTTATTTT ACCATTAANT TGCTTTAATA CCATNGTAAA 180

SEQ ID NO:5420

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06453

SEQUENCE DESCRIPTION:

GATCACTTGA GCCCANGTTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60  
 TCAGCCTGGG CAACAAAGGA AGACCCAGT TCTGGGAAA 99

SEQ ID NO:5421

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06454

SEQUENCE DESCRIPTION:

GATCCCTGCA TTNCCTGAAG ATNTTTAAAC GTGAGAGTNT GGTAGGCAAA GCAGTCTGAG 60  
 AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTTGGTTGC ATATAATCTT TGCNCTTTTT 120  
 AAGCTCTGTG AGCTCTGAAA TATATTTTNG GNTTACTTCA GTGTGTTTGA CAAGACAGCT 180  
 TGATATTNCT NTCAAACAAA TGACTNNGN 209

SEQ ID NO:5422

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06455

SEQUENCE DESCRIPTION:

GATCCAGTGG ACAAAAGAGG GGAAACTATG GGAGTCCCA ATTAACAATG AAGCAGGTTT 60  
 TGATGATGAT GGTTCAGANT TTCATGAACA TATATTTNTG GAGAAACACC TGGAGAGCTT 120  
 TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTGTGGCC TTTCCAAAAN 180  
 CCCATATCTT AGTGTTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATTNTTTTNA 240  
 TGNNAN 246

SEQ ID NO:5423

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06456

SEQUENCE DESCRIPTION:

GATCTGCTCA GAAAGGAAGA GGCAGGCGCC AGGGNGAACC CCCTTCCGTG NTTGTAAACC 60  
CTCCCTNTAA GGTGAAGCCC TTTTNCCTGC TAAAACCGGN AATTN 105

SEQ ID NO:5424

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06457

SEQUENCE DESCRIPTION:

GATCCTGGGG GTCGTGGCTA CCCCCTCCTC GTGGCCGNNC TCCTTGCTGC TCCTGTCAAT 60  
AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCACACA 120  
GCACCCTGGC ATGACCTNCC ACCTNGGGTT CCANACCGN 159

SEQ ID NO:5425

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06458

SEQUENCE DESCRIPTION:

GATCACCTAT CCCCTGTTTC AACAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT 60  
GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCAGCA AACACAAGGT GCAGCAGGGT 120  
CCCAAAGGTA GCTGGNTGGC TGANCTGCTG GNTATGGGAG ATACATGACG CGAAGACGGN 180  
TTNACATCC ACAGGGCGGT NTTNANGAAA N 211

SEQ ID NO:5426

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06459

SEQUENCE DESCRIPTION:

GATCCACCAC AGGGTTAGGG GACAGGAAGC CTGTTCTATT CTCAATAAAT CTTACAAAAT 60  
TCCAAA 66

SEQ ID NO:5427

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06460

SEQUENCE DESCRIPTION:

GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAGT 60  
 ATTTGAAATT TGCACATTTA ATTGTCCCTA ATAGAAAGCC ACCTATTCTT TGTGGATT 120  
 CTTCAAGTTT TTCTAAATAA ATGTAACCTT TCACAAGAGT CAACATTAAA AAATAAATTA 180  
 TTTAAGAAA 189

SEQ ID NO:5428

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06461

SEQUENCE DESCRIPTION:

GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60  
 AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120  
 ATGAAAAAAG AACTATAGTA TTTTAAAAA TATGCTTTTA TTTNTATTNC ACATAGTGNA 180  
 AAGTTCTACA NAN 193

SEQ ID NO:5429

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06462

SEQUENCE DESCRIPTION:

GATCACATTT CTGGGAAGAT GAGANCTNNT TTCCAGACCA GCATCCAGTG GCCATCAGGT 60  
 CTTGTGGCCC AAAGGCTATG CTTGCCTCCG GCTGAGTGCC TGGNATAGGC CTTNCTATG 120  
 TCTCCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTCACCA CCTAGCCATA GTCTCAAACC 180  
 TGTGGGGAAG GNGGNNTTCT CCCTGCCCGG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240  
 TTGACTGTGT TTTAAAATTC TCTTTCTAAA 270

SEQ ID NO:5430

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06463

SEQUENCE DESCRIPTION:

GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60  
 CCACCTCGCT ATTCCTCGCAT AAGCATCTGC CCCCACCCC TTGACCTTC ATCTGATGGA 120  
 CATTTTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162

SEQ ID NO:5431

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06464

SEQUENCE DESCRIPTION:

GATCAGTTGT ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCTTTA TATTAAAAAT 60

NAATACAATA AGAAAATTGC AAA

83

SEQ ID NO:5432

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06465

SEQUENCE DESCRIPTION:

GATCTGCAAG CCCTGCTGTA CAAGAAAATC ATTAAGGAAC ATTTGGAGAG TTAGCTACTA 60  
GCTGCCTAAG TGTGCACTTT CAATCTAACT GTGAAAGAAT CTTCTGATGT TTGTATTATC 120  
CTNCTTATAT TATATTANCA AAATAAATCA AGTTGTGGTA TAGTCAAA 168

SEQ ID NO:5433

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06466

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCCTC CCAAGGTGCT GGGATTGCAT GCATGAGCCA CTGCACCCAG 60  
CCAAGATACA TTGTGACGT GAAAAAAAAA TTCAAGATA TATAGAACAG TGTAACATG 120  
CATCCAATTG TGTTTTTCAN GGAGAAAATA ATGTATACTT GTATTGGTTT ACGTATGAAA 180  
CAAAANTATC TAGAAGGATG AATAAAAATC TAGTAAGTGA TTNTACACTA GGGCAAATTG 240  
GAAACAANTG GGNGACTTCA TGGATGACTT TTTTATATTT GTAAAGTGA NGTGANTGTN 300  
TTACTTATTC CACCAGTTAN GTTGAAACCT TTNNNNGGNA GGTNGTGGT GNTTNTN 357

SEQ ID NO:5434

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06468

SEQUENCE DESCRIPTION:

GATCAGATGG CTTAGAGAAA TTNCTGGAAT ATTCACATTC GAAGATTCCT TATTAATNAA 60  
TGTCTTTNAC TTAAATCTAA CCAAAAACTG CAACATTATT CTTGTACAT TTNCATTATA 120  
TAGTGTTAAC AAGCTTAGTT GCANACAANT AAAATACTTA AGCTATTTGT TTAAA 175

SEQ ID NO:5435

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06469

SEQUENCE DESCRIPTION:

GATCTGGTGA AACTNGCTAA ACGNCTCAAG AAGGAGAAAG TTAATNTTGA CATTATCAAT 60  
TTNNGGGAAG AGGAGGTGAA CNCAGAAAAG CTGACAGCCT TTGTAAACAC GTTGAATGGC 120  
AAANATGGAA CCGGTTCCTCA TCTGGTGACA GTGCCTCCTG GGCCCAAGTTT GGCTGATGCT 180  
NTCATCAGTN CTCCGATTTT GGCTGGTGAA GGTGGNNN 218

SEQ ID NO:5436

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06470

SEQUENCE DESCRIPTION:

GATCACAGTG GGCAGCCGGC ACCCNGCACC ACTTTGGCGA GCGTCCTGCT TCCGNCCTCG 60  
CCCTCATCTA CGCTGCTCCG CTTTCCTCAG ACCCCTTTT GCCGTGCAAA GGGAATTCTT 120  
GACATTAAAT AAAAGGTATC CAGNTTGCAG AAA 153

SEQ ID NO:5437

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06471

SEQUENCE DESCRIPTION:

GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATT ATAGGAAGCT TATAACAAGA 60  
ATGGAAGATT CTAAATAAC TCACTTTCTT TGGNATCCAG TAACAGTAGA TGTTCAAAAT 120  
ATGTAGCTGA TTAATACCAG CATTGTGAAC GCTGTACAGC CTTGTGGTTA TTAATAAGCA 180  
AGTTACTACT AGCTTCTGAA AAGTAGCTTC ANAATTAATG GTTATTNTA NACTGCCCTT 240  
CCNTGGCTGN TACTTTNCCC TAAGNTNAAT CTNCGAGAAT CTGAAATGNT TNCTNCANTT 300  
NTCAGGGAGN 310

SEQ ID NO:5438

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06472

SEQUENCE DESCRIPTION:

GATCACATTN GATNAAAGAG CAAAACCTGT TAAGTCCAAA ATAAATTCTT ACTGTTTATA 60  
TCCTAAA 67

SEQ ID NO:5439

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06473

SEQUENCE DESCRIPTION:

GATCCACAGA AGGTCTCTGT GGTATTTGTA ACTTTTGGCA AGGCATTTTT TTATATATAT 60  
TTTTGTGCAC ATTTTTTTTT ACGNTTCTTT AGAAAACAAA TGTATTTCAA ANGTATATTG 120  
ATAGTCGANC AATTCATATA TTTGAGGTGG AGCCATATGA ATGTCAGTAG TTTATACTTC 180  
TCTATTATCT CAAACTACTG GCAATTTGTA AAGCNATATA TATGNTATAT AAAGGTGATT 240  
GCNGCNTTNC ANTGTAGCC CCNGTGNN 268

SEQ ID NO:5440

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06474

SEQUENCE DESCRIPTION:

GATCCAGGCT CAGAACTTCT TCTCCAGCTT CACCCTGATG AAGCTGAGGC ACTCCTCCGC 60  
TCTGGGTGGG GCCAGCCTAG GGGCCAGGCA CATCGGGCAC CTNCTCCCA TGGACTATAG 120  
CGCCAATGCC ATTGCCTTCT ATTCCTACAC CTNTTCCTAG GGGGCTGGTC CCGGGCTCCA 180  
CCNGGTCCAA GCTCAGTGGA CACTGGGTCT GAAAGGAAGG AGTCTTTTGN TTCCTTTCTC 240  
CTNTTTACAN GAACAAACAT AGATGGTAAA TAAATNNACT TTNTCCNNCT CCCCAGAANN 300  
NAATNN 306

SEQ ID NO:5441

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06475

SEQUENCE DESCRIPTION:

GATCAGCTAC ATAAACGGC CTGAGTGCTG TTTAAACAG CNCTGGGTG ATGGTACAAC 60  
ATNACTTTTT AAGATAATNA NGTAGTAAAA GTTCTAGTG GAAACATGAA A 111

SEQ ID NO:5442

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06476

SEQUENCE DESCRIPTION:

GATCCCAACA TTTTGGCAG TGAGCATTAC GATGTTANCC GTGGGGTGCA AAANATCTGA 60  
ATAAAATTTA CAAAAGGAGA ATTCAGACAG ACCAACCTGG GTNATGTGT TCAAGCTCTG 120  
CCCCAGGAGC TTGAATGTCT NTNCCTNGTG GCAGGAGCAT TCCTAGAGAC TGGTGCATCA 180  
GGTTTTATGT TGTTGTCTCT CTGCTCCAGC TCACCCNTNA AANCTCTNCC CTNGGATGTT 240  
GGAATCANA TTCTN 255

SEQ ID NO:5443

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06477

SEQUENCE DESCRIPTION:

GATCCCATAA AGCTACGAGG GGGACGGGAG AGGGCAGTGC AATGGGAAGT AAAGAGATAT 60  
TTNCCAGTAG GAAAAGCAAT GCTTCTTGT CTTAGACTC AAATGCTTAG GGAACGTTTC 120  
ATTTCTCATT CATGGGAAA GGCAGCCTCC TTAAATGTTT NCTGAAGAGC GGTAATCT 180  
AGAAGCTTAA GANTTTNCAG TTCCTTCAAT AACCATGATG ACCTGAAGTN CACCTATCCC 240  
ATTTAGCAT CTNCTTGTTT TNCCCATCTC TNCCTTTCCA ATTTNCTTA TNCTGCTGTA 300



ATATTTTGT AAA

313

SEQ ID NO:5444

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06478

SEQUENCE DESCRIPTION:

GATCAGCTCA CACCCAGTCT CTCACAAGTN TTCATTCCAT AAAAGTGGTT GACTAAAGTG 60  
 AATATGTCCA TAGTGGGGTC TTTTAATCCC TCTGGTCTTA CCANGGGTTA GANGTCTNTN 120  
 GGTNTAACT TTTCCATATT GTTAGAACAT CATGGNGACA TCATGTNCAT CTGTTCAAAA 180  
 TTACAAGAGG CTTTNTCAAG CTCTACCATG CTTTGNAN 218

SEQ ID NO:5445

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06481

SEQUENCE DESCRIPTION:

GATCATTGTG AAGGCAGGGG AATGTATGTG CACATCTGTT TTGTAAGTGT TTAGATGAAT 60  
 GTCAGTTGTT ATTNATTGAA ATNATTCAC AGTGTGTGGT CAACATTTCT CATGTNGAAA 120  
 CNTTAAGANC TAAATGNTC TAAATATCCC TTGGACATTT NATGTCTTTC TTGTAAGGCA 180  
 TACTGCCTTG TTTAATGGTA GTTTACAGT GTTCTGGCT TNGANCAAAG GGGCTTAATT 240  
 ATTGATGNNT NGGATN 256

SEQ ID NO:5446

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06482

SEQUENCE DESCRIPTION:

GATCCGGAAG CGAATTCATC TCCGAGCTGA GGATNCCTTG TTTTNTTTG TCAACAATGT 60  
 CATTCCACCC ACCAGTGCCA CAATGGGTCA GCTNNACCAG GAACACCATG AAGAAGACTT 120  
 CTTTCTCTAC ATTGCCTACA GTGACGAAAG TGTCTACGGT CTGTGAAGCT GCTGCCCTG 180  
 AGCTGGAGGG GGGTCTCATT CTACAAAGAG AGAGGTGGCC CCCCTTTCTT GACCTGCTCC 240  
 TCCTTCAAGC TTAAACANCA CCTCCTTATT CAGGACCGGC ACTTCTTAAT GTTTGTGGG 300  
 CTTTCTNTCC AGCTNTCTTT NGGNGGGGTA ATGGGTNGGA GTTN 344

SEQ ID NO:5447

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06483

SEQUENCE DESCRIPTION:

GATCTTTCTA GGAGGGAGAC ACTGGCCCT CAAATCGTCC AGCGACCTTC CTCATCCACC 60

CNATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120  
 AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180  
 GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240  
 TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGGNCTTGA 300  
 CTGTTTTNTC TNGGTNCCNN ATGGGTCTG GTTN 334

SEQ ID NO:5448

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06484

SEQUENCE DESCRIPTION:

GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTGA GCCTCTACAG AATNAGGAAG 60  
 TAAAGTCTAA GGCAGTTAAA 80

SEQ ID NO:5449

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06485

SEQUENCE DESCRIPTION:

GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TTCCCTCT ATTGCATCCC 60  
 CCTGCCCGNC TCCTTCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120  
 CCNGNGTATT TGTTGTANAT ANTTAAN 147

SEQ ID NO:5450

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06486

SEQUENCE DESCRIPTION:

GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTGTACAA 60  
 CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109

SEQ ID NO:5451

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06487

SEQUENCE DESCRIPTION:

GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60  
 TTGAGANTGG GNCCAGAGT AGATGCTGAC CTGGGCACTC CACCATTCCG GGGCCACCAC 120  
 AGAGATGCCA GCAGGATGCC ACTTNCCAG CCCGACACAC GGACCTTTNT AAAGANCAGC 180  
 AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTTCCCG TCATTGGGTG GCATNTGTTA 240  
 NCTAGCTGNC AAACANCTTC ANCCCGTGTA ATTN 274

SEQ ID NO:5452

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06488

SEQUENCE DESCRIPTION:

GATCACGGCT CTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA 60  
ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTCAAGTG GGCAACTCTG CTCTCTATTT 120  
AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTAGGAC AATAAAGANC ATACAGTTTT 180  
AAA 183

SEQ ID NO:5453

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06489

SEQUENCE DESCRIPTION:

GATCACCACT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 60  
GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 120  
CTGTGTCAGG AACTTGGAGT TGCACTTAAC CTTGTAACCT TGTGTTGGAGC TGGCACCTCT 180  
TGAAATAAAA AGGGAGGNTG CACGAGCTGG GCAAA 215

SEQ ID NO:5454

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06490

SEQUENCE DESCRIPTION:

GATCAAAAAA TTCAATTTNC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 60  
TGACAATAAA 70

SEQ ID NO:5455

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06491

SEQUENCE DESCRIPTION:

GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60  
GTCACGAAAA NACTGAAAGT TTNATTTTCC TTTCCATATT TAAN 104

SEQ ID NO:5456

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06492

SEQUENCE DESCRIPTION:

GATCCCAGTT ATCCTTGNAT CCATGTAATT TCAGATGAAT TATTAAGCAA ACATTTTAAA 60  
GTGAATTCAT TATTA AAAAC TATTCATTTT TTCCTTTGG CCATAAATCC NCTAATTNTC 120  
ATTAAAATTC TAAGGTCATT TCAACTGTTT TAAGCTGTAT TNCTTTAATT CTGCTTACTA 180  
TTTCATGGAA AAAANTAAAT TTNTCAATTT TAAA 214

SEQ ID NO:5457

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06493

SEQUENCE DESCRIPTION:

GATCCAGAAT AACTTCTCCC ACTCATATCT NCAGTTCACC NAATGAAATN AATGGATAGC 60  
AAGAGCCCNT TGTTCCAGG ACTTTAAGGC AAAATATTAA AANTN 105

SEQ ID NO:5458

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06496

SEQUENCE DESCRIPTION:

GATCCTTTTA TAAATTAAA AAATTTAATG TTAATAAAGC GAGGTGTAAT TGTA AA 56

SEQ ID NO:5459

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06498

SEQUENCE DESCRIPTION:

GATCCGNGAA AGGCTGAAAG GCCAGGAAGA CAGCCTAGCC TCTNCAGTGG ATGCTGCCAC 60  
CGNACAAAAG ACCTGTNACT CCGACTGAGG CATGNCCTGC CCN 103

SEQ ID NO:5460

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06499

SEQUENCE DESCRIPTION:

GATCNTGGAT NTAGAAGAGG TNACATTGCA CAATGTTTGA ATAAGGAAAC TATTGGAAAG 60  
TTTTTCCAAG CTGACATTGC AGAAAATGCT TTGNAAAATT CCTCAGAAAC AGAAATACCT 120  
ACTGTCAGCG TTTAGCTGA TGAAGANTTC CTTCCCTNCA AAGAAAATAC ATTTGACCTG 180  
GTGGTNNGCN 190

SEQ ID NO:5461

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06500

SEQUENCE DESCRIPTION:

GATCCCGCCC ACTCAGAAAA GGCAGAGAAGG CTTTGTAATT TTCTACATGA ATCAAACACA 60  
GAAACAACCTT TTGGAGAAAT TAAATTCTGA GTGTNACTTC TGAAA 105

SEQ ID NO:5462

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06501

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CTGTTTACAT TCCGAGAGTT GTCATGAAGA AAGTNCNTNT 60  
CAATAAGNTT TTGGAATGTT AAA 83

SEQ ID NO:5463

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06502

SEQUENCE DESCRIPTION:

GATCAGGACA CGAGGAAGAG TAAATGTGAG ACAGTCAATG TGACTTCTGC GATAAACAGA 60  
TTTTTAAACC CCGAAATTTT GCAAAATTTT GGTGAACCTG ANCTNCTTC GTTGCATATG 120  
CTGGCACTAT CTGTACCATC ATACANCTGT CTCACATTAA AGCTATTTTC CTTGGGCAAA 180

SEQ ID NO:5464

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06503

SEQUENCE DESCRIPTION:

GATCATCTCC CCTGGCAACG TGACTCTGTT TTTTGTGTGT GTTCCATGC TGACTAGTCC 60  
CCTACTGTTA ATATCACTAC TAATTAGGCT ATAACCAGGT CTTTCCTGGC CTGAGAAATA 120  
TTCTCTTAAA ATNACCTTTG TTTTAATCTC ATTCATGATG TTGATTTTTT TTCAATGTGG 180  
TGCAATATAT ACANTAAAAA TNGTCATANC TAAA 214

SEQ ID NO:5465

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06504

SEQUENCE DESCRIPTION:

GATCTGTCCA GGGAGGTGGC TGAAGAGTGG GCATCTCCCT TAGGGACTCT ACTCAGCACT 60

CCATTCTGTG CCACCTGTGG GGTCTTCTGT CCTAGATTCT GTCACATCGG CATTGGTCCC 120  
 TGCCCTATGC CCCTGACTCT GGATTGTNA TCTGTAAAC TGGAGTAAAA ACCTCAGTCG 180  
 TGTAAA 186

SEQ ID NO:5466

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06505

SEQUENCE DESCRIPTION:

GATCTTTGCT TCCTTNCTAT TATGTTTGTA CACAACACCT AAAACCAGTT TTGCTGCTAT 60  
 ANTTCTATAC TGTGATTTCG TCTGCNANNT ATCTGTAACC AAATAAACAT AATAGGN 117

SEQ ID NO:5467

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06506

SEQUENCE DESCRIPTION:

GATCCAAACC AAAGACTGTA GAACCCTGGG GTGTGGCTAA CTGCCCCNTN CNGCACCCTG 60  
 AGCCAGGTCT TCCTGCCCCT TNAGGCTGGG CTGGCGGACA GGCACCTNCC TGTTCCTTAA 120  
 GCTGAAGCTC CCACACTGTC TTCCAGGGCT GAGGAGATGC TCTCCTTTC TACTGACCAT 180  
 CTTGATACTT ATTTATACGA GAGNCAGTTG CTGGACGGGG TAGTACTGGG AAGCAGGAGG 240  
 CAGAATGGCT CTGCTGAGCC TNCNACCCAT GGNCAACANC CTAATAAAAC AGANCATTTC 300  
 AGAGCCAAA 309

SEQ ID NO:5468

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06507

SEQUENCE DESCRIPTION:

GATCCCATAC CAGAAGATGA GAAAAAAGAA TAAGTGTTCG CTGTTTTGT GTGTTCTAAA 60  
 TACTTTTTNT AATGAAAAAA TGNTTTTNG TTTTAAA 97

SEQ ID NO:5469

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06508

SEQUENCE DESCRIPTION:

GATCATCTAA ACTAAGTCCA GCTGCCTAAT TCTAGATATA TATATATATA TAGAGNTCCA 60  
 CCATAAA 67

SEQ ID NO:5470

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06509

SEQUENCE DESCRIPTION:

GATCTTGGGA AGTATTCCCA AGGAAAACAG TCCTGGGCAC AGTCTCCAAA ATAAATTCTN 60  
AATTTTGGGA AA 72

SEQ ID NO:5471

LENGTH:467

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06510

SEQUENCE DESCRIPTION:

GATCCCATGG CTTTCTTTAC TGGGCTCTGG GGGCCCTTCA CCTGTGTAAG CAGAGTGCTG 60  
AGCCATCACT GTTTCAGCAC CACTGGGAGT CTGAGTGCGA TTCAGAAGAT NACGCGGGTA 120  
CGAGTGGTGG ACAACAGTGC CCTGGGGAAC AGCCCATACC ATCGGGCTCC TCGCTNCATC 180  
CATGTCTATA AGAAGAATGG AGTGGGCAAG GTGGGCGACC AGATACTACT GGCCATCAAG 240  
GGACAGAAGA AAAAGGCGCT CATTGTGGGG CACTGCATGC CTGGCCCCCG AATGACCCCC 300  
AGATTGACT NCAACANCCT GGTCTCATT GAGGNCAACG GGGAACCCCTN TNGGNGACAN 360  
GTATTNAAGA CACNGTNCCC ACCTAGGCTG TGGNAGGGTG AAGGGCGAGT TTTCCCAAGN 420  
TGGTGGGCCT TNGTTNAGAN CTTTGTGTTG NGTTGGNNC NNGNTAN 467

SEQ ID NO:5472

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06511

SEQUENCE DESCRIPTION:

GATCTTAAC NTCTTGACTG ATTTAAAAAG CTAATCAATT TATTAAAGCC AGANATGTNC 60  
TCCTCTGGGA AAGCAATTC TATCTATTTA TCTACCAATC CCCACTCACA TATATATGTT 120  
TGTNTTTACA TAGAGATAGA TGGTTTTAAG GGTTTTCTA TTGTTAAATT ATTCCTAAG 180  
ACATTGTGGG NTGGAGACCA CTAAACTTAT AAAAAACCA GGAAGTAAA GTTTTNCAA 240  
TGTTTATACT GTTTAAGGTG TTTATTTATN TAANCCATGC ATGGGGTNNC ATGCATAANT 300  
NNNGNGGTTT AAATTCACC AGTGANN 327

SEQ ID NO:5473

LENGTH:70

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06512

SEQUENCE DESCRIPTION:

GATCAAGGAA CTGTGCCTG TCTATAGATT TTATTTCCCC TGTACAAATA AACTTGGCTG 60  
CAATCCCAA 70

SEQ ID NO:5474

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06513

SEQUENCE DESCRIPTION:

GATCTTGCAA GACTAAAATT GGCCATTAAG TACCGTCAAA AAGAGTTTGT TGCCCAGCCC 60  
AATTGTCAAC AGCTGCTGGC ATCTCGCTGG TACGATGAGT TTCCAGGCTG GAGGAGAAGA 120  
CACTGGGCAG TGAAGATGGT GACATGTTTC ATAATAGGAC TTCTTTTCC TGTCTTCTCT 180  
GTGTGCTACC TGATAGCTCC CAAAAGCCCA CTTGGACTGT TCATCAGGAA GCCATTTATC 240  
AAGTTTATCT GNCACACAGC CTNCTATTTG ACTTTTTTGT TCCTGNTGNT GCTTGCCTCT 300  
CAGGACATAG GCAGGTCAGG NNTGANCNGG GAAGGTCCAC CANCACCATC GTCGAGTGGA 360  
TGATATTGNC NTGGGTNCTN GGNNNATGTG TTANNTAGGA AATGTNATAA ANCN 414

SEQ ID NO:5475

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06514

SEQUENCE DESCRIPTION:

GATCAACAAT NAGCATCAAA TCTATGGCTC CTGGCTCCAG CANCAAGACG CAAGAAGACA 60  
GGANGAGAAG CANGAAGTGA GACTGGAGGG AAAGGGAGCT GAGTCTNCTA GN 112

SEQ ID NO:5476

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06515

SEQUENCE DESCRIPTION:

GATCATTCTT TTATAGAGCA TATTTGCCAA TAAAGCTTTT GGAAGCCGGA AA 52

SEQ ID NO:5477

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06516

SEQUENCE DESCRIPTION:

GATCTAACTT TGCCTCTTT GATAATAATG TTTTAGATAA TGTGCGTAAT CCAAATTGGT 60  
ATTGTAGCCT CTGTTAACAC AGACAGTATA TGTTTTAAAC TTTGATGTAA ACCTTTTNAG 120  
ACCCAAACTT GTGGAAGTAT CATGTGTAA GTNCTCTGTC TCTGTTTCTT TGTTCATTTA 180  
TTACTAAAT GAAGTTGTTA TTAAAGTATA TGCAAAATNTG AAA 223

SEQ ID NO:5478

LENGTH:144

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS06517

SEQUENCE DESCRIPTION:

GATCCGGGGN AGCTGTATCC CCAGTAGAAA AAACATTTTA ATCACTCTAA TATAACTCTG 60  
GATGAAACAC ACCTTTTTTT TTAATAAGAA AAGAGAATTA ACTNCTTCAG AAATAACTAA 120  
TAAATGAAAA ACCTTTAAAG GAAA 144

SEQ ID NO:5479

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06518

SEQUENCE DESCRIPTION:

GATCTTTTGA CGNNTATANA AATGTACTAA TGTNATAAGT TAATGCTGGN CATTTCAATT 60  
ATATATATTT TTAAGAGGCT AGAGGCTTTT AGCTTTTAA AACTCCATTA TATACAN 117

SEQ ID NO:5480

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06519

SEQUENCE DESCRIPTION:

GATCTTTTCA TCTCATGCAG ATATTTCTAT TGTGGGCTTA TACATTTGNT CACCTATTGT 60  
TGATGGNACT TNGACTTTC CATTTTGGCG CTATTACAA TAGGCACTAT GAATGACTGA 120  
TGNACCACTT ACTTGAGCTT TATGNCTTAT TNTCAAAGCN GCAAAATN 168

SEQ ID NO:5481

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06520

SEQUENCE DESCRIPTION:

GATCAGTTAT GAAGAAGGGA AAGCTTTGGC AGAATCTTGG AATGCAGCTT TTTGGAATC 60  
TNCTGCTAAA GAAAATCAGA CTGCTGTGGA TGTTTTTCGA AGGATAATTT NGGAGGCAGA 120  
AAAAATGGAC GGGGCAGCTT CACAAGGCAA GTCTTCATGC TCGGTGATGT GATTCTNCTG 180  
CAAANCCTGA GGACACTGGG AATATATTCT ACCTGAAGAA GCAAGCTGCC CGTCCTCCTT 240  
GAGGATAACC TATGCTNCTT TTTNCTCCTG TTAACCTGNA AGATATCATT GGGNTCAGAG 300  
CTCCCTNCCT TCAGATTATG TTACCTCTGA GTCTGTCCAA TGAGTCACTT CCATTTCAAA 360  
TTNNNNGCAT CNNTTTCAN TGTGTATGTN GNATN 395

SEQ ID NO:5482

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06521

## SEQUENCE DESCRIPTION:

GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GATCTGTNT AGATATTCT 60  
TATTTAATAA AGACGATTG TCAGTTAAA 89

SEQ ID NO:5483

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06522

## SEQUENCE DESCRIPTION:

GATCAGAAAT GCCTCCTTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60  
GTCACCCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120  
TTAGCTGAGT GAATAAA 137

SEQ ID NO:5484

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06523

## SEQUENCE DESCRIPTION:

GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60  
TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120  
CCACATTGGA TTACACATGT GAGATTGCT GCTGTTGCAT ATAACACTAG GNTAATAGNT 180  
TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240  
TNTCTNCNCN 250

SEQ ID NO:5485

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06524

## SEQUENCE DESCRIPTION:

GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAAACATCG AAAAAGTTAA 60  
ATATTATGGA AAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117

SEQ ID NO:5486

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06525

## SEQUENCE DESCRIPTION:

GATCTAATGC AGGATGTCAG ACTTNTNTCT ATCCAGGAAT AAAACCAAGT ATGCCAGAAG 60  
TAACTATTAT NCACCTNTCT CCTACTGAAT TAAATACTA TCAGTTGTAT ATNAAATN 118

SEQ ID NO:5487

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06526

SEQUENCE DESCRIPTION:

GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTC AACAG TGTTCGCCAG 60  
CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTGA GAAGAAAGAA CACTAATN 118

SEQ ID NO:5488

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06527

SEQUENCE DESCRIPTION:

GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60  
TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATTAACAA TTGAAACAAA 120

SEQ ID NO:5489

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06528

SEQUENCE DESCRIPTION:

GATCGCCATC ANTTGGGTAG TGACAGNGTA TTAATTTGCT TATACANTTN CTTTACTNTC 60  
CTTTTTCCT TTCTGGAGCA TCACATGCTG GTGCTGTGTC TTTATAATGT N 111

SEQ ID NO:5490

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06529

SEQUENCE DESCRIPTION:

GATCCTACAG ATACAAGTTG CTAAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60  
CCTGGATTGA GCATGATGTT TGGAGATGGA GATTATGTG TCTCTGGGAT TGTGGGTGG 120  
ANTACTGGTC TGTGGCTGTN ACANCTATTC CTCTGTGAGT GACTCTTGCA TGGAGAGATT 180  
CATATATTCA GGCAGCTAGG ATGTTCCTT CTA CTGTTGAC ATACACGATT GANTTTNCTG 240  
AATANGGGTA GTTAANCATT GTATGTTACN CNCACTTTTG TGCTTTTCCT CCATTGTGCC 300  
NTATTAACGC TCTTTCGCNT CTGNGAGAGT CTGAGTTAGC TGGTGGAGCG CCAAATACAA 360  
CTGGTTGTCC GTGTGTNCTT TCCCTTTGTC ANTGGTTTGC CACATCAGTT TGTGNTGTAT 420  
GN 422

SEQ ID NO:5491

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06530

SEQUENCE DESCRIPTION:

GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60  
AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120  
CAACTGTTTC ACATGCTGTG TTTGGTAGTT TNNCCTAGTG CTCTCCTTAA TAATGGTGGT 180  
GTNTAGCAAA NN 192

SEQ ID NO:5492

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06531

SEQUENCE DESCRIPTION:

GATCATTAGG TCAGAGTTTA CACGNCCTCT CGTCACTAGA ATCCACCCAG CCCACGAATC 60  
ATCACCCNCT TGAAGGACAT TATTACTACT GNAANTTNGA ACAAACNT 108

SEQ ID NO:5493

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06532

SEQUENCE DESCRIPTION:

GATCCATCCA GAACAGCGGT ATCTGAAGCC CAGGCCATAC TCCCTGCCTC CTTNCTTCTG 60  
CCTACCAGAG GCTCCANAGT TGAGCTTGTC CNTTATCTAG AAACATGTGA AGATGCCCAA 120  
GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCCTNC CCTCAGCCTT 180  
GTGGCCANTT CCNCTTCACA TGAAGCCCCT TGGCATTTC TNGGGAAGGG ACTNGCCTGG 240  
TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 300  
TTAGATGGGN AGCANTAAGC CAGCTNNGN 329

SEQ ID NO:5494

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06533

SEQUENCE DESCRIPTION:

GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATTAACTT 60  
TTTTTNTCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAATNATT TGAAAAACTC 120  
TTAAA 125

SEQ ID NO:5495

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06536

SEQUENCE DESCRIPTION:

GATCATGAGA CTGAAATTGG TCAGAATTGT GTCCAGAATG TGCTCAGCTA ATTCAGTATT 60  
 CTTCCCCATT CTGGGTTGGA GTTTACTGCA GAGTAATTCT TACAGTGCTG ATGTCAAGAC 120  
 TGTTACTGTT CTTGACTTTT GATTCTTGC TCATGACATG AGTAGGGTGT GCTCTTCTGT 180  
 CACTTCACAC AGACCTTTTG CCTTTTTTAG CTGCAAGTCA AGGACTAGGT TGATGATGCN 240  
 CATGACCTGT AATTGTAAAG ANGCTTGGNC ATCTGCAAAT GATATTNAGA CCATCTNGGC 300  
 TTGTGCTTNN ATTCAACTA ATGTGAACCA ATANGTN 337

SEQ ID NO:5496

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06537

SEQUENCE DESCRIPTION:

GATCCATGAT GATAATTAAG AGAAGAGAAA AAAAGATATT ATTTTGTNA GGACAAACCA 60  
 TTGTAGGTTT TTAGCAATGT GTATCTGTGT GTCCCTCACA CCTTTTCCTA TTCTACTTTT 120  
 TTTTCCTTTT TTTAAAAATA TTATGTACTA TATTTTNAGT CTCAAACACA CTATATATTA 180  
 TATATNTNNN NNNN 194

SEQ ID NO:5497

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06538

SEQUENCE DESCRIPTION:

GATCATTTCT AGGCAAAATT GTGAAGCTAA TGACCAACCT GTTCTACCT ATATGCAGTC 60  
 TCTTTATTN ACTAGAAATG GGAATCATGG CCTCTTGAAG AGAAAAAAGT NACCATTCTG 120  
 CATTTAGCTG TTTTCATATA TTGCATNTCT GTATTTTTTG TTTGGATTGT AAAAAGTTCA 180  
 CATAATAAAC GATGGTTGTG ATGTAAA 207

SEQ ID NO:5498

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06539

SEQUENCE DESCRIPTION:

GATCCAAGTG ACCAAAGGAG TTCAAGGCC AAAATTTAGT TATGCTGGAT TAATTCTGAG 60  
 AGTAACAAGC ACATAGATTA TAATCTAAGA AAACCCTTTG TAGCTATGCA TNGTCGGGAG 120  
 AGCATCTAAC ACTAATGGTG ATGTTTCCCA TGCAGAGACT CAGATTACAG TGACTCTTCC 180  
 AGTGAAGACA GATGAAAGCC ATGGGGCATT GTNCCTTTNT TAATCCAAGC TAAACTANCC 240  
 AAGGATATAG GGGTGTGTAT GTGTCTGNGT GTGTGTGTTT GTNTGTGTGT GCACATACAT 300  
 NTNTAGGIAT GGTGTGTGGN 320

SEQ ID NO:5499

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06540

SEQUENCE DESCRIPTION:

GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTGTAC 60  
AATATCATTT TGTAACTTTT TACAAATAAA AACTCATTTT TATTGCTCTC TGAAA 115

SEQ ID NO:5500

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06541

SEQUENCE DESCRIPTION:

GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCCTG TGCCTGGGTG 60  
CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 120  
TGCTGTCACT GGCCGTGGAG ACAGCCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 180  
AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 240  
TGTCAAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCNA 300  
AANTGGGCCA GGAN 314

SEQ ID NO:5501

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06542

SEQUENCE DESCRIPTION:

GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60  
ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTTNCCA TATCATTTAG 120  
CTGGAAAGTA CATTAAAAG CACCCTGCAT CACTAGTAAT AGTGTATTN NCTATTCTGC 180  
CCTTGTAATC GGTGTCCCTG TAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240  
TTCTCTNCGT AAGGGCCAGG TTTATTTCTT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300  
GCTTGCACAT TN 312

SEQ ID NO:5502

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06544

SEQUENCE DESCRIPTION:

GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60  
TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCTTTN NTTNGCTAG 120  
TATGTGTTGT TGAAAAA AAAACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180  
TTNAATCTNG TACAATTAAA AGCTTTTGCC TATCAAA 217

SEQ ID NO:5503

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06545

SEQUENCE DESCRIPTION:

GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 60  
 GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGTTTC 120  
 TGACGCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCT GTTGCTCACA CATTGTCTGG 180  
 CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 240  
 AGGGAGGCTC TGGNAGGAGG TCCTCTCCN NATCCCTCCA TCTGGGGCT CCNCCAACCT 300  
 NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 334

SEQ ID NO:5504

LENGTH:87.

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06546

SEQUENCE DESCRIPTION:

GATCTTTTAA AGGTTTNNAC CATTTTGTNA TGAGGAATTA TACATGTATC ACATTCATA 60  
 TATTAATAATT GCACTTTAT TTTNAAA 87

SEQ ID NO:5505

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06547

SEQUENCE DESCRIPTION:

GATCCATCCC ATGATTGTN CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 60  
 ACATGGTGAC TTTCCCACTG TGCCATGATA CAGTGTGCAT CTTATAGCAG TGCCTTTNTG 120  
 TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 180  
 TAAGGAATAT TAAAAATNGT GTTCTACTT TAATTGTATT GGCTGTTCAT GTATGTAGGA 240  
 GTTAAATAG GCCAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 300  
 TGGTNNNTGT NNGNTTNGGN GGN 323

SEQ ID NO:5506

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06548

SEQUENCE DESCRIPTION:

GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 60  
 TTCCTGAAAA ATAAAGTGTG GGAAGAGAAA 90

SEQ ID NO:5507

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06549

SEQUENCE DESCRIPTION:

GATCTTACTT TCTTGCTGCT TTTCCAATA TAATCATTTC GCTCTTGCTT TAACAAAAGN 60  
NGNGGCACAG NAATTAGTA AATTGTGTA ATAACATTTA AA 102

SEQ ID NO:5508

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06550

SEQUENCE DESCRIPTION:

GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCGCTCC AAAAAANGGA 60  
GAAA 64

SEQ ID NO:5509

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06551

SEQUENCE DESCRIPTION:

GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAGT ATTAGAAGGT 60  
TTAATGACAA GTATTGAAG AGCTGAAGTT AAGTGTGGG AGGCCATCCC TTATGAAGGA 120  
CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCTGGGT CCATTAATTT AGTAAAANG 180  
GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 240  
TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 300  
TTTTAACATT GTGTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 360

SEQ ID NO:5510

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06552

SEQUENCE DESCRIPTION:

GATCATCCTC ATTAGCACAC AGATTTTNA AATCAATTC TCTNGCCATG CCTCCTATGT 60  
GTTACATCT CTGCATACAC TACAGATATA AGTCATAAT CATTCATATA NACATCTGGT 120  
AGGTATTCTG TAAAACTGTG TTTACTTTAG TGCATGTNAT TGTCATGTNA TGATGTGACT 180  
GGGGTGTTTC TTTGTGCATG AAACCTTGCT TCTNCACAGA NNTAGATTAC TGCTCTCTCT 240  
ATATNGANCT NCATATACAG CGTTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCG 300  
GTGGTGGTG NTGACATGTG AGTGGTGNC TGGGNGGTCT GNTNCACATA GGGGCNN 357

SEQ ID NO:5511

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS06553

SEQUENCE DESCRIPTION:

GATCTTTTCA GCTGCTATTT TGGAATAATG ACTATCATAT ATCATAACAG TGA CTGATGT 60  
TGGTTGTAAT GGTGGGGTTT AGGATGAACC ATTTTAAGGA TGCCAAATNA AATATTAGTA 120  
TTGTACACA GTAAGAAA 138

SEQ ID NO:5512

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06555

SEQUENCE DESCRIPTION:

GATCCCAGCA GGGNTTCTGC TCTGGGGCTG GCAGGTTGCC TGGTATTATG CCCAAGGNCG 60  
NTCTGCCTGG GGGAAAGGGC AGCCAGGCAG AGGCCCAGTG TCTAGTAGGC NGCTGAATTT 120  
CCTGGAAGGG GTGATTGGTT GGAAAGNGGN CAGNAACCCC AGCCTNN 167

SEQ ID NO:5513

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06556

SEQUENCE DESCRIPTION:

GATCCCTTGG AGCACCTTNA TGCCTGGGGT TTCTCTCCCT AAAGCTTCTT GCAGTCTAAG 60  
CCTTATCCCT TATGNTCCCC ATTAAGGAA TTCAAAAGA CATGGAGAAA NTTGGGAAGG 120  
TTGTNCTGA CTGCTGGNNG CAGAAATAGCC GTGNGAGN 159

SEQ ID NO:5514

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06557

SEQUENCE DESCRIPTION:

GATCTGGACA AATGGCAAAT AATTGGGGT TGAATTATGG CCCAGAGAAG TAAGCAAATG 60  
NAAACTAAA CANTTATAAA TGTATCTGGG AAGCAAAGGT ATTCATANTA NGTCCCATGG 120  
CCAGCTGCGA GCAGTATTTA ACTAGACATG CTGTTGTCAA TANNNNN 167

SEQ ID NO:5515

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06558

SEQUENCE DESCRIPTION:

GATCGTCCCC CTTTNTGGGC TGGAAAAGCA GGTGAGGNTG GGGTGGGCTG AGGCCATTNC 60  
CGCCACTATC TGTTAATAA AATCCGTGAG CACGAAA 97

SEQ ID NO:5516

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06559

SEQUENCE DESCRIPTION:

GATCCTCCGG AAGTAGTCTC TNCCCTCGGC AGCGGAAATA CTGATTCCCA CTGCTCCTNC 60  
CTCTAGGGTG CAGTGTCCGT ACCTNCTGGA GCTGGNCCCT CCTTCCCCAN CCCAGACATT 120  
GAGAAACTTG GGAAGAAGAG AGAAACCTNA AGCTCCCAA CAGCACGTTG CGGGAAAGAG 180  
GAAGNGAGAG TNTGAGTNTG TGTGTGNTT TTTCTATTG ANCAN 225

SEQ ID NO:5517

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06560

SEQUENCE DESCRIPTION:

GATCATTAAAT AAAGCTTTTC TTGGTTCCTT CAGTGGTGTT GGTAGTAAAA TGGAAGGNGT 60  
CTTGCTGCAG GTAACAAATG AAGANGTGGT CAACCACAGA GTCTTCAAGA AATAAGAAAT 120  
TCTGTACCAN CTGAAAGTAG TGCTTGTTGG TGCCTTCNTT TAAAAAGCAC TCTTTTAAAT 180  
AAAAGGGAAA TGTTTTCTGA TAAACCAAAC ATTAGTTGA GGTTCCTGAT ATAAAACATT 240  
TACAANNIGA GTGTGTNTG TAAAGCAGTA GCCNTCATT TTGGCTAGNG AGNTAAATGN 300  
GTCANGTTTT ANCTAGGTTT TNGTGAGTNG NCAGGTTTNN 340

SEQ ID NO:5518

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06561

SEQUENCE DESCRIPTION:

GATCAAAGCC AGTNTTAAAT GGGAGACCGA GCGAGCGCGG CAAGTGCTGG AACACCTGCT 60  
GAAGGAAGGG TTGGCGTGGC TGGACTTACA GGCCCCAGGG GAGGCCCACT ACTGGCTGCC 120  
AGCTCTCTTC ACTGACCTCT ACTCCCAGGA GATTACAGCT GAGGAGGCCA GAGAAGCCCT 180  
CCCCTGACTG CATGTGGAAG GGCACACAGC AGCAGGCAGG GAGGAGGCGG AGGTGGCAAA 240  
TAAACCTGGG CAATTTTGTT TATACAAAAA ATAGAAGAAA AGTTCCAAGT TTTCTTTCT 300  
TCCCTCATT TTTNTTTTT GAAAAAAGAN 330

SEQ ID NO:5519

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06563

SEQUENCE DESCRIPTION:

GATCTCATGA TGATTCANAC CACAGNCTGG GNTAAAGATG TCTTGACCTC TGAGGCTAGC 60  
ATAACATATA TNAGAATACA NCTTGCCTAT TTCCAGAAAA TCTGTATATT N 111

SEQ ID NO:5520

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06564

SEQUENCE DESCRIPTION:

GATCAGCTTA CTGAAAAGAA GCCTCCNNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT 60  
TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG 120  
CGNCAATGGN 130

SEQ ID NO:5521

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06565

SEQUENCE DESCRIPTION:

GATCNACAAT NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG TNGCTTANTT 60  
CAGATGTGTC ACTAAATTC CCNTCTAGAT GGTCTTGAG CAAAACCTAA TAN 113

SEQ ID NO:5522

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06566

SEQUENCE DESCRIPTION:

GATCATCACA GTTTGAGTTT GACCCCAATG CCAGGATGGT GACACACATA TTAAAGAGTA 60  
ACAGCTGGTT ACATTGCTAG GCGAGATAGG GGGAAGACAG ATATGGGTGT TTTAATAAAA 120  
TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 180  
TGTGNNTGTN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 240  
ATNCTTNACT TGCTNTTGGG NTTGCACTGG N 271

SEQ ID NO:5523

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06567

SEQUENCE DESCRIPTION:

GATCTCACTT TCCCCTTGTG GGGTAGGAAC CGATGCCAGT GGGAGGGATG TGCCCCTGAC 60  
CATTAACGAC TGTTTTTTTT TTTTTTTTAA AAAAAATGGN GTTNTTGGN GGGGNAATNC 120  
ACANAN 126

SEQ ID NO:5524

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06569

SEQUENCE DESCRIPTION:

GATCACGGGA ATGCTGCTGG AGATAGACAA CTCTNAGTTG CTGCACATNT TAGAGTCCCC 60  
CGAGTCTCTC CGCTCCAAGG TGGATGAAGC TGTAGCAGTT CTACAGGCTC NTCATGCCAA 120  
GAAAGAAGCT GCCCAGAAGG TGGGCGCTGT TNNNNN 156

SEQ ID NO:5525

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06571

SEQUENCE DESCRIPTION:

GATCCTTCTA GACCAAGGAC CCATTGTAA AAGCATGGAT TCTGCCTGAN TTACTTCCCT 60  
TTTGAGAAAT CATATCTCAA ATACATAACC TGGTAATATA ACTGAAAAA TAAAAGTGAT 120  
TGCTCCTTCC AAA 133

SEQ ID NO:5526

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06572

SEQUENCE DESCRIPTION:

GATCCCTGCT TCATAGATT GCATCATTCA AGCATATCTT GTAAAACAAA CACATATTAT 60  
GGGACTAGGA AATATTTATC TTTCCAAATT TGCCATAACA GATTTAGGTT GCTTNCCTT 120  
CTTTGAAGGA AAGTTAATT ACATTGCTCT NNNNNN 156

SEQ ID NO:5527

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06573

SEQUENCE DESCRIPTION:

GATCCTAGCT GCAGATTGCA TCCCACAATG CGAGAATAAT AAAATAAAAT TNGATATTNG 60  
AAA 63

SEQ ID NO:5528

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06574

SEQUENCE DESCRIPTION:

GATCNATGGT GTGACTCAAG CTCNCCTTA CCCAGGGGGG GTAAGGGCAG GCCTCTAGCT 60  
ACTTGGAGTT GTCTGTAATA ATCTNGAAAG GCCCAAGGGC CTGTGCCCAT CCTGACTNAA 120  
AGGNATCTCC TTCCCTGTTT CATATCATAT GACAGAGAAA CCTGTTCTCA TGGCATGNAA 180

CATCCCTGTN AAGAGAGCGT TGNCNNN

207

SEQ ID NO:5529

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06576

SEQUENCE DESCRIPTION:

GATCTTGCAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG 60  
AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAATCCCA GTAAATTGGT 120  
ATATTTGTTT TGGGTTATTT TTGAAGACCT CTTTAAAAAT TTGCCTAAAA TAAATNCTCG 180  
GTATGCTAAA 190

SEQ ID NO:5530

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06577

SEQUENCE DESCRIPTION:

GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA 60  
ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC 120  
GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC 180  
GGCTGCCTCG CGTGTTCCTA AGCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT 240  
TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC 300  
TGGAGANGAA GGTAAAGGAG GAAGAGANTA TTANGTATTT N 341

SEQ ID NO:5531

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06578

SEQUENCE DESCRIPTION:

GATCTNTTCC AACAGTTCTN TGTAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG 60  
ACCATTTAAA AGCAGCCTAT GATTGCTTCT TTTTGTAAG CAAGCAACCN GCCTCCACTT 120  
TAGCTGTTTT NACTATTNGA TNTN 144

SEQ ID NO:5532

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06579

SEQUENCE DESCRIPTION:

GATCCTAAAA CGAAGAGAAT TTTGACTCTC CAGAAAGCTA ATAGCTGGTT CAACTGCAGG 60  
AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 120  
TTCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTAACTT CTAGAGTCAC TGATACACAG 180

AATATAATCT TATTTATACC TCAAANNGAN TNANANGGGG NNNN

224

SEQ ID NO:5533

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06580

SEQUENCE DESCRIPTION:

GATCTNCCTC NACACCTNGG GCAAAGTCTA TGCGAAGATG GTTCTTAGC TCTCCATTG 60  
CCATGATTTT CCTCCCATTC ATCATGAGGG AGTTTCTCAA ACCAGGAGT NATATTTATT 120  
TNTNAGAAAA TACACACTTT TCAGGAGAAA CCTGAGCATG ATTTTGGATT CTCCACCTCC 180  
CCCCAGTCTC GGNNNCTGGG ATTCAGCTCA AGGNTTCAGT GTCTTCATT TTACAAAAGT 240  
TCCCCAAGA AATCAGCAAC CAGCCTCTGT TTCATCTGGG AGCCCCTCCC TNGGNCCCCT 300  
GGGTTTTGGG GGTGTGTCNC CTACTGGGGG AACAGCGGGG GGTGN 345

SEQ ID NO:5534

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06581

SEQUENCE DESCRIPTION:

GATCATNTTG GAACAGACA AGAATCCAAA GAAAATAAGA ACACAGACCA CCAGTGCAAA 60  
ACAAGAAAA GCACCAAGTA AAAAGCCAGT GAAAAGAAGA AAAAGAAGA GAGCTGCCAN 120  
TTAAAGCTAA CAGTTGTATA TCTGTATATA TAACTATTAA AAGGGATATT TATCCAAA 179

SEQ ID NO:5535

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06582

SEQUENCE DESCRIPTION:

GATCAAAGTT AAGNTTATAT CCTGTTTGTA GTATCAGATA TTTCTGTG TACAATTATA 60  
GGATTGTAAT CTACACTGGA ATTTNAGGC AGTAAGTCAC CACAAAATGT TTTAGATAAG 120  
ACACAATAAA ATTATTATAA ATAAAAGCTT AATGTTTGTA AAAANTCTCT TTTTAGTAT 180  
TTCTTTTTTC ACATGNAAGN NGTGGTGGCT GCTAAANAAA NAGCTACAGT GTTTATTANG 240  
GGTCGTTTTG ATTTNTGTNA NTCTTTGTAA ATTGGTCAGT GCCTGTN 287

SEQ ID NO:5536

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06583

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTCTCTCA CCTCANCTGA GCTCCTTTAA AAGTAATTCA AGGGACTATG 60  
TCACTCAGCC TCATTTNCTG GACCAAATCT GGAGGGAGAA CCCCTAAAAC CCCTAAGTAA 120

GGTTGCCAG GGGGTTGTCC CCAGGTGGG GGAAGCAGG GAGAGAAAAT GGTAGCCATT 180  
 TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240  
 ATGACTTGGA AACTGAAA 258

SEQ ID NO:5537

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06584

SEQUENCE DESCRIPTION:

GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60  
 AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120  
 TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180  
 ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240  
 NNTANTNN 248

SEQ ID NO:5538

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06585

SEQUENCE DESCRIPTION:

GATCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGACTCAAGA AGAAGATGAT 60  
 GACCAAAGGT GATTGTAAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120  
 AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATTC TNNAAAAAAA 180  
 AAAAGATTAA NTTTAGAN 198

SEQ ID NO:5539

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06586

SEQUENCE DESCRIPTION:

GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTTGTNTC 60  
 CTTTAACACA TTAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120  
 TGTAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TTTTNAAAA 180  
 NAAAAAAN 188

SEQ ID NO:5540

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06587

SEQUENCE DESCRIPTION:

GATCTGGGTG TGCTCTATGG GGAGTNTCTGA CGTCAAANAG CAAATGTCTA TAAGGGGCC 60

TTTAAAAATN AACATTTTCC TCATTGAGCA AGCNTGGATT CTCTAATGTA GAAATCAAGC 120  
CATCTTNATA ATTNCACN 138

SEQ ID NO:5541

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06588

SEQUENCE DESCRIPTION:

GATCCTCCCA CCTCAGCCTG CTGAGTAGCT GGGTCTACAG GTGCACACCA CCATGCCTGG 60  
CTAAAGGCAT GTCTGCATTT ATGCGAGGTG TGTTGACCGG GTGGGGAGGG AGCTAGGACT 120  
GAGATTCGCC TGTNTAAAAT GCACAAAAG GGTTCGCTAA GCAAATTGAT ATTTGAACTA 180  
AAAGATGGAT TAGGGTGAGA GACTTAGTTT ANTCAGGAAT AGTNGCAGAG NCANCCACAN 240  
CAANAANTGN ATTTCCCTGN GACAGCCGTT TGTACGTACA GCAGGGNNCT GGTTCACAGN 300  
TTTCACGGAG GGNGGNTAGG GTTCTTNTAC TN 332

SEQ ID NO:5542

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06590

SEQUENCE DESCRIPTION:

GATCAAAATNA TTTGACTATT GCTAGACATT TCTATACTCT GTTGTAACAC TGAGGTATCT 60  
CATTTGCCCA TGTTAATTTT TTTCTAAATA AATTGACAAA AACAAA 106

SEQ ID NO:5543

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06592

SEQUENCE DESCRIPTION:

GATCACAGCC TCCAGGGCCC CCCAAATCCC AGGGAAGGAC TTGGGAGAGA ATCATGCTGT 60  
TGCATNTAGA NCTTTCTGCT TTGCACAGGA AAGAGTCACA CAATTAATCA ACATGTATAT 120  
TTNCTCTATA CATAGAGCTC TATTTCTCTA CGGTTTTATA NAGGCCTTGG GGNTCCAACC 180  
AGGCAGTAAG ANGTGCTTCT GAACCGCAAG GGGCGNACGA CTGGAAGTAA AATAGTTTGT 240  
TTTTNCANT TCGNGGGNAG GGGNNGGN 268

SEQ ID NO:5544

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06593

SEQUENCE DESCRIPTION:

GATCCAATTA ACAAATTCTG CACTGTGGCA ACTNAACGAN ATTATGCTTT GGACAGCTTT 60  
ATGTGTGAAT GTAAGAACAT ATTCTNAAGA AATGCTGTAA CTTTATCCCA TATANCTCA 120



TANGAATTC TCTATAGGCT TGGNATTG C AATAAAAATA GAGGATATGT TGGCAAA 177

SEQ ID NO:5545

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06594

SEQUENCE DESCRIPTION:

GATCANACAG CCTACANCCA GCCCCGAGTG TGCATCANGG TAAAAGAGCT GAGGGCTCTC 60  
TNCAGGGAGC AGCCCATTTA GGTCTCTGTN GTTGTGTGA GGGAN 105

SEQ ID NO:5546

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06595

SEQUENCE DESCRIPTION:

GATCATATNA GACGAGNAAG AGGAAGACCT AAAAGTGCAT CTGCCAAAA ACATGAGGAA 60  
GAAAGTGAGA AACAGGAAAA GGAAATTNAC ATCTATGCTA ACCTGTCTGA TGAAAAGNCT 120  
TTCGTGTTTT CAGTCGCCTT NGCAGCNNN 149

SEQ ID NO:5547

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06596

SEQUENCE DESCRIPTION:

GATCAGTGTG AGTCCTGAAG CACTTTNAGN GCTGTGNGAA CGACATCCAC TTTGGGTTTC 60  
ATTCGTTTGT AAGCAGAGGA GCTGTCAGTC ACTCGTGCTT GTCGGTGGCC TCTGAGCCAT 120  
GGTGTGAGT GAAGAGTAGT TCTTGTGTGT TACAACCTTT GTGAGTCAGC CATGCCCGCA 180  
AAGCGTGCTG TGTTTTAGTC CTGGTAGGAA TATTTATNAG AGTTCACACT ATGTAAAACC 240  
CAACNGCTTC ANCTATTGCC CTTTCAACAG TTTTGCCACT GACCGGATAG AACCGGTTTC 300  
AGTCTCTGGA TGGGTGTGTT TGGTGGGTTT GTAACCATG ACGGGTTTAA ANCCATGGGT 360  
TTNAAGATTG GGCCCAAATA ACCAGNAATT TTGTTCCGGG GAGGGGGTTN N 411

SEQ ID NO:5548

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06597

SEQUENCE DESCRIPTION:

GATCATAAAA GGCTATTATC TATNCTGGGG AACGATTATA ACTTAAATAA TTATTTTAAT 60  
AAAAATACTA AGCTNNAAA 79

SEQ ID NO:5549

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06599

SEQUENCE DESCRIPTION:

GATCATCTCG CAAGTGCTCT NGTGCCTAGG ATTCATCTTT CTTTTCACCG TAGGCCCTGA 60  
CTGGCATTNT ATTAGCAAAC TCATCACTAG TCGTNGTNCT NN 102

SEQ ID NO:5550

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06600

SEQUENCE DESCRIPTION:

GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA 60  
TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT 120  
TCCCCAATTA CAGGGTGACT CACAGCCGCA TTGGTGACTC ACNNNN 166

SEQ ID NO:5551

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06601

SEQUENCE DESCRIPTION:

GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA 60  
TAGATTCTTT GGAGGTCTGG ACATGTTAGC TGAAAACTT CCAAATCTCN NACATCTAAN 120  
CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGA CTTTGAAAA AGTTAGANTG 180  
TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTNCCAN 219

SEQ ID NO:5552

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06602

SEQUENCE DESCRIPTION:

GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT 60  
GTTGGCTGGC ATCCCTGAGT CCCCTNCGGG CTCCTATGGA NCNN 104

SEQ ID NO:5553

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06603

SEQUENCE DESCRIPTION:

GATCATCTGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGACTNCGCC ACTGNACTCC 60

AGTCTGGGAC AACAGAGCAA GACCCNGTCT TAAA

94

SEQ ID NO:5554

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06604

SEQUENCE DESCRIPTION:

GATCTCCAGC TGCACAGGCC ACCGNCCCAG GGCCTGGCCG CTGTTACAGA AACAATAAAC 60

CCTGATGGGC ATGGCAAA 78

SEQ ID NO:5555

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06605

SEQUENCE DESCRIPTION:

GATCGTAACA ATGCCAAGAA GACACAAGAA TATGAGAAAG GAATTCCTAG AAAAAAGGCA 60

AAGGTTTCAA TGAATAAGCT AATTTTCT AAGTCTACTG ATAACATACT CCCTACCCCA 120

TCCTCCATTA ATAAAGANT GGTGTTGTA TTGTATTATG AGGGAATTAA AAGTGTGATA 180

NGANANNNNN N 191

SEQ ID NO:5556

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06606

SEQUENCE DESCRIPTION:

GATCGGAGAA TTGTGTAGCG GAATAGGAAA TATCATTCCG GCTTGATGTG GGGAGGGGTG 60

TTTAAGGGGT TGGCTAGGGT ATAATTGTCT GGGTCGCCTA AA 102

SEQ ID NO:5557

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06607

SEQUENCE DESCRIPTION:

GATCTCACTT CTGTCAGATG CTCCCATCCA CTATNAATGC ACTAGGTGGG AGGAGAGGGC 60

GGCAATGACA CTGCACCTCT CCTTCCAC CGCATTCCCT GGAGCTCCCT AAATAAACT 120

TTTTTTAACG TGAAG 135

SEQ ID NO:5558

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06608

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGCAAAT CAATGATGCA AAGAAAACAG AAAAGAAAAA GAAGAAAAGA 60  
CAGGATATTT CTGTCATAA ATTAAAGCTG TAATATATTT NNANTATAAT GTAAATATTA 120  
ATGTGTAAGC TTATATTGTG TCATTGTNCT GTTTTATAAT AAAATNCTTG AGAACCTTCA 180  
AA 182

SEQ ID NO:5559

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06609

SEQUENCE DESCRIPTION:

GATCTTGACC TCACGGTGTA AGAAGGGAGA GGATGGTTTC TCTTCTGCCC TCTCCCATGG 60  
TGCCCGTGCC TCTNTGCTGT GTATGTGAAC CACCCACGTG AGGGAATAAA CCTGGCACTA 120  
GGAAA 125

SEQ ID NO:5560

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06610

SEQUENCE DESCRIPTION:

GATCTTTTGA GATACAATCC TTATTTAAAA AGGAGAAGAT AACTGAGGAT TTTAAAAAGA 60  
AGCCATGGAA AACTTCCTA GTAAGCATCT ACTTCAGGCC AACAAGGTTA TATGAATATA 120  
TAGTGTATAG AAGCGATTGA AGTTACAATG TTTTATGGCC TAAATTTATT AAATAAAATG 180  
CACAAAACCTT TGAAT 195

SEQ ID NO:5561

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06611

SEQUENCE DESCRIPTION:

GATCTTGTGC TCAACATGAT NCNTTAATAG AAGTTTTATN TTTNNGTGCA CTCTGCTAAT 60  
CATGTGGGTG AGCCAGTGGA ACAGCGGGAG ACCTGTGCTA GTTTTACAGA TTTCTCCTA 120  
AATNCGCGG N 131

SEQ ID NO:5562

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06612

SEQUENCE DESCRIPTION:

GATCTAATAG CTGAACTGAT TCAAACTGTA ATAAGCTCAT CAATTTTANT TCTATGAAAA 60

TGTGCTCTGT TGTACAGGA TGTTCCTGT GGTTCCTTC ATTCCTGGG AATTGGTAAA 120  
 CATCATGTT CNGATGATA CCCAGTAGCA AAANCATTG TNCTGTGTGG TACAAGCCTT 180  
 NGGGACTGNN AAANAN 196

SEQ ID NO:5563

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06613

SEQUENCE DESCRIPTION:

GATCCCATAA TATAAATCAT ATCCTTTATA TTNAGAATA TCTCAAATGT ATTCCTTTTT 60  
 TGTATGGTGG GTTGCCTAG GGACGTGTAA CTACAGGCTT TACTAAGCC AAGGAAAAAG 120  
 AGAATTTTNC TTTTCATCTT ACAAATTCCA GATATCTACA AANGNTGTGA AAGCACTAAA 180  
 AGNGNNGNTT TTAAGCAGTA CTTTACCTGT TTTTCCTTTA GCAAACCAGG TTATGTGGTG 240  
 TAAAGGTTTG TNATACGTGC CACAATATAG CATATAAATG TTATGCCATC ATTCCTTCTC 300  
 TTGTTAN 307

SEQ ID NO:5564

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06614

SEQUENCE DESCRIPTION:

GATCTATACA TGAACAGCAG AATGTATAAG CTAGCATTTA CTAGCATGTC TCTNATACTT 60  
 TTGTNCATTT CTGTTAATCG TCATTCTGT CCCCTCTGCA TGGAATTTNA TACTTGTCTA 120  
 GGGTAAGAGT TTGTAGACTC TTTCAGCAGA ACAGATTTTA ATAACCAATT TATNTGTTTT 180  
 ATTTTAAA 188

SEQ ID NO:5565

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06615

SEQUENCE DESCRIPTION:

GATCAGCACA TCCAAAAACA CCAAGACAAA CATCCATGTG GAGCAGAACC TNTCCTGCCT 60  
 CGGGAGTTCT GACCAGGTTT CCCAGCAGGG TGTTAAGCCT CTGTNTCTGG CCCTACCAGC 120  
 ATNCGGGTTC CACTTTTCCT AGGAGAGNGT GGAGATGGGN NGACAGGGAA AGGNNGGN 178

SEQ ID NO:5566

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06616

SEQUENCE DESCRIPTION:

GATCTATCAT TTTAATTGAT TCTGAAGCTT GTATTAAAA CTAGGCAATA NCATCATGGG 60

ATACATAGGA GANGGCACAT TTTACAATCA TNCATTNTGG CCNN

104

SEQ ID NO:5567

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06617

SEQUENCE DESCRIPTION:

GATCTGCTGA CAAACCTGG GAATTGGGT TGTGTATGCG AATNTTTCAG TGCCTCAAAC 60

AAATNTGTAT TTAACCTATG TAAAAGATAA GTCTGGAAT AAATGTCTGT TTATTTTGT 120

ACTATTAAA 130

SEQ ID NO:5568

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06618

SEQUENCE DESCRIPTION:

GATCATTTAA CATTCTGTGT ATGTAACAAA ATATCACATG CATAAATATT ATGTATCAAT 60

AAAATTTTTT AATGGGCAAA 80

SEQ ID NO:5569

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06619

SEQUENCE DESCRIPTION:

GATCCGGTCA CTGCACTCCA GCCTNGGAGA CTACAGCAAG ACTCTNTCTC CAGTTAAA 58

SEQ ID NO:5570

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06620

SEQUENCE DESCRIPTION:

GATCTGAGGG GTGGTGCCTA CTTCCACTGT AAGAAAGAAT CTNGGTGGAT TTGTGTNTCA 60

AATCANGATA AGAGAAGCCT GTTTAAAGGA GCAGATGCCA TCTNCTGNCT TCCTCAAGGA 120

GCCAGTTAAA AAACCAGAGC ATTCCTTTN ATTGAAAAAT AAAATTAGTT TGTTATCAAA 180

ANNNGGTN 188

SEQ ID NO:5571

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06621

## SEQUENCE DESCRIPTION:

GATCATAAAC CGTTGCGGGA CAGAAAGTTAG ATATGTGATT GATTATNATG ATGGTGGTGA 60  
AGTCAACAAG GACTACCAGT TCACCATCCT GGACGTCCGT CCTGCCTTAG ATTCACTTTC 120  
GGCAGTATGG GACAGAATGA AAGTCGCTTG GTGGCGTTGG ACCTCGTAAA GCACTGTTTC 180  
AGATGGAAAA NTATAANCTA TTTTNTCTG AGCGATACAT TAACTATTT TCCCAGAAA 240

SEQ ID NO:5572

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06623

## SEQUENCE DESCRIPTION:

GATCCTCATC TTCCCCAAAT ACTCGTTCCC AAAATTGACG AGCCTGACAA TGTGCATGCC 60  
AGGCAAGGCT CTTGGGGTTC CCCTAAAACA CTTCTCTTT TAAGCCTACC ACTCACTCAT 120  
CATGAATATA GTCCATTGTC CCAGGGTGTA AAACCTCTA TAGTGTTAAA TAAAAGANTG 180  
ATTGGGGAAC ATTGAAA 197

SEQ ID NO:5573

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06624

## SEQUENCE DESCRIPTION:

GATCTGGCTC AGTCTACTAT GGGCAGGGCC CCCACCAAG CTGAGCCGAA TGGAGACAGC 60  
TGAGCTGAGG CCTGACTTTT TCAATAAAAC ATTGTGTAGT TCTGGGAAA 109

SEQ ID NO:5574

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06625

## SEQUENCE DESCRIPTION:

GATCTGAGCT GATGACTTGT GAGAGAAAAA GGAACAGAG TAAAGCCATG GAAGCCATGA 60  
ACAGTAAGAG ACTGCCGCCT GGCATGGTTT CTTCTTCTGC AGAAGATGAA ACTGAGGAGA 120  
AACAAGACAA CATCCTTCAT ACCAGGAATG GTCAAGATAA TGCAAGAAGA GNGNAGCTTT 180  
CAAACAANTC AGNAGGCAGT CAACAAACAG NAAGGGGGNC ATTCTTCCC TGGCAGTTAC 240  
TCATANCTGA AATTGCTTAT TGTGTACACC GGGGCTTGTA CTTGGGGNAT TTAATANNAT 300  
TGCTCATTNC CAAGCTCCNA ANNNAANTTA TTN 333

SEQ ID NO:5575

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06626

## SEQUENCE DESCRIPTION:

GATCGATTGC AGTCAGAGCC TGAAAGTATC CGTAAATGGA GAGAAGAACA AATGGAACGC 60  
 TTGGAAGCCC TTGATGCCAA TNNTNGGAAG CAAGANGCAG AGTGGAAGA AAAGGCAATA 120  
 NNGGAGCTAG AN 132

SEQ ID NO:5576

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06627

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTNACAGTT CTNCCTGTCC AAACCTCATC CTGTCCCTCA GGAACGGGGG 60  
 GAAAATTCTC CGAATGTTTT TGGTTTTTTG GCTGCTTGA ATTTACTTCT GCCACCTGCT 120  
 GGTCACTACT GTCCTCACTA AGTGGATTCT GGCTCCCCCG TACCTNATGG CTCAAACACTAC 180  
 CACTCCTAAG TCGTATATT AAGGCTTATA TTTTGNTGGA TTACTGCTAA ATACAAAAAT 240  
 NTTTGANAGG GANNGGNGNG TGNGGNGTGT NN 272

SEQ ID NO:5577

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06628

SEQUENCE DESCRIPTION:

GATCATCCTG TCTGGCTGCA GTGAGAGACC AACCCCTAAC AAGGGCTGGG CCACAGCAGG 60  
 GAGTGCAGCC CTACCTTCTT CCCTTGGCAG CTGGAGAAAT CTGGTTTCAA TATAACTCAT 120  
 TTAATAATTT AAA 133

SEQ ID NO:5578

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06630

SEQUENCE DESCRIPTION:

GATCCACAAA CTNCCTGACA CTACTIONCAT ATTTCCACTA AAGGAGATTC AGCTACAAAA 60  
 GGAGGCCAGC CNTCGGTCTT CGTCGATGCC TGAATCAGGC ANGCCAGCTT TCCGCGTGGT 120  
 GGACACCGAG TTCTAAGCCA CAGACCGAGG CCCCAGCAGN CAGCGGCTGG AGGGNTGCCA 180  
 CANCNN 186

SEQ ID NO:5579

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06631

SEQUENCE DESCRIPTION:

GATCCACTGC CTCGGCCTCC GAAAATCTGG AATNATAGAT GTGAGCCACT GCGCCAGGCC 60  
 TGTAATTTTA TGTATCTTTA TGTGATTATT TGAATGTCCC TCTCTGACTA GATTATAAAT 120



TCTAAGGATA GTGAAA

136

SEQ ID NO:5580

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06632

SEQUENCE DESCRIPTION:

GATCCCCGTT CTCAAGTGTC NCNGGGAACA TAAACNGAGA TAACATGAAA AAACCTTGACA 60  
CAGAAA 66

SEQ ID NO:5581

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06633

SEQUENCE DESCRIPTION:

GATCCTTNAA GGCAGCTGCC TTATCTTATT CCTNTTGTG TTTCCATACC TAGCCTAATA 60  
CCTAGCTTAT ATAAGGGAAC AGAATAAATA AACAATAAAG AAAAGTCTTT ACAGCCTCTA 120  
AA 122

SEQ ID NO:5582

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06634

SEQUENCE DESCRIPTION:

GATCCAGGGC CGTTTCATGAA CCACTGGGCT GGATTNGACT GTTGAGTGTG GCAGTTAATG 60  
CCCCTCAANA AATCAAAGGA TGTCTTATAA GTGTCTTCCA AAAAAAGCA AATGCTGAAA 120  
TCCTATTGGC AAAGTAAACT GAAATTGGCT GCTATATTN ATATAATCAT TTCTGCAANT 180  
CCCANTTNTT GNATACTNAT GTNGGACATG GTTANTTCTT ATTAATTTGT TGGAAATTGTT 240  
TATTGTTAGN AGTGCANATN GN 262

SEQ ID NO:5583

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06635

SEQUENCE DESCRIPTION:

GATCCTGGCC AGTACAAAGT CGTTGCTCTT GTTTATCTT CTCTTACAGA GTCTCCCTCC 60  
CTTTATAGAA TGTCAACCAA AGAGTGCCCT CCTCCCCTCT CAGCCTCCTN TNNAGCTAGC 120  
CTCCCATCT CATCACAACG CATGTCTGTG ACCTTTGGTA ATCATTTACA GTGCCACACG 180  
GAACCCTGTA TTTTGCACAC AGCAAAACAA ACAATGTTA GCTTTATTTA TGGTATTTGA 240  
TGCTGTAAAT GGAAATAAAT ATTGTTCTTT ATAAA 275

SEQ ID NO:5584

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06636

SEQUENCE DESCRIPTION:

GATCTCTCTC GCCACGGCAC CGTCAGCTCC TTTGTGGCCA AGCTTTTCAT CTTTGTGTCT 60  
GCAGAGCTCT GAGCACTCGC TTCGCGTCGC GGGGTCTCCC TCCTGTTGCT TTCCTAACCC 120  
TGCCCTCCGG GGCCTTAATA AAGTCTTAGC AAGCGTCCCA CACAGTGAAA 170

SEQ ID NO:5585

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06637

SEQUENCE DESCRIPTION:

GATCAGCTTT NAGAGTGGTC CTAAGCAGTA AACTGGATGA TGTTCATTA GAAAAACATC 60  
AATACTTCAT ATTTAAGTNT NAGTAGTTAC TACTGATTNG ATAATCACTT AANTN 115

SEQ ID NO:5586

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06638

SEQUENCE DESCRIPTION:

GATCCTTG TG GACTGCCACT GCTGGCTGCC TCCTCTCCAA CTCATCAGAA GAGCATT TTG 60  
ACAAAGACAG AGGACTTGGA CCAGGGCATG CCCTGTTGGG GATGTTTCTG TCAGCAAGGA 120  
CATGGCATGG AATCAAGTGG GCTGATGTGT TGTTATTTAA ACAGTACCAA AGTGCATTCT 180  
TCAATGTATG TTTGCTGCT TGAAGCAAGG CCCAAGTTGA GAATACAGTA AAGGNAACTC 240  
ATGAAAGTGA GAAA 254

SEQ ID NO:5587

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06639

SEQUENCE DESCRIPTION:

GATCCCGCCC TGACCCAGAG GAAGCCTCTA TTTATTTATT AGCTTTTGTT TACACCGTGG 60  
AATTGACCCC TTCCTCCAGG GGTCTGGGT GGGGGAGCCC AGGGCCCCTG TGACCCCTCC 120  
TTTCTTCCTC CAATCCCCAG TTTGTATTTA GCTGCCAAAT AAGATTCCCA TTGGNTCCCT 180  
GTGTTCTCTT GGGGGGTCAG GGTGCTGTCC CCTNCNNTCT GTTACATCT CCCCTNTACC 240  
CCGCTGTATC GCATATTGNN GAGTTTNC TA TTTTGCAAA ATAAAGTGAT GGAAACTCAA 300  
A 301

SEQ ID NO:5588

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06640

SEQUENCE DESCRIPTION:

GATCAGAGAA AATACGGTAC ATGTCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60  
TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTTGTC 120  
CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180  
AGGCTCTTCA AAAAAANNAN GNNAAN 206

SEQ ID NO:5589

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06641

SEQUENCE DESCRIPTION:

GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNCTGT 60  
TCAATAAGGT TTTGTAATGT TAAA 84

SEQ ID NO:5590

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06642

SEQUENCE DESCRIPTION:

GATCTGTGGC TGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGAAA AACAATAGGA 60  
GAAGGGTCAG CTCCGCGCGG GCATCATCCC TACCAGATTG AGTGTTTTGC ACGCACTTCA 120  
ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150

SEQ ID NO:5591

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06643

SEQUENCE DESCRIPTION:

GATCATCATA TCAAGATGAT ACCAAAAGTA TGTA AAAAAGA AACCTGCATT ATTTTGTAAT 60  
NATTCTTAT AGATATTTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTNCCTTT 120  
AAA 123

SEQ ID NO:5592

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06645

SEQUENCE DESCRIPTION:

GATCCTGCAA ATATCTTCTT TCCAGTTTGN TATTGTCATT TGNCTTTTGA CTTTGTCTG 60  
GTATTTTTTG NTATGTAGAA ATNTTTATTT TCATGTAAGC AAATTTATGA ATCTTTGNAC 120  
ACCATAAGTA TATACAATTA TGATTTGTCA ATTAAAAATA TTAGTACAAA 170

SEQ ID NO:5593

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06646

SEQUENCE DESCRIPTION:

GATCATCCGG TGAAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 60  
TCCTTTCTCG GAGCTGGTTT AGCTGGATAT NGGNGGNTTT N 101

SEQ ID NO:5594

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06647

SEQUENCE DESCRIPTION:

GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCCTGGT 60  
CCTGAAATAT AGAGGCCTGA TTAAATACTG GTTTCACACT CAAA 104

SEQ ID NO:5595

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06649

SEQUENCE DESCRIPTION:

GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTTAATA TATAATGATG 60  
GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91

SEQ ID NO:5596

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06650

SEQUENCE DESCRIPTION:

GATCCAGAGA GTGGGGGTGA GGGGTGGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60  
ATTGAGTGTA TAAACCCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAT 120  
TACAAA 126

SEQ ID NO:5597

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06651

## SEQUENCE DESCRIPTION:

GATCCTGGTG GCCACCAATN TGTITGGCCG GGGGATGGAC ATTGAGCGAG TCAACATCGT 60  
 CTTAACTAC GACATGCCTG AGGACTCGGA CACCTACCTG CACCNNGTGG CCCGTGCGGG 120  
 TCGCTTTGGC ACCAAAGGCC TAGCCATCAC TTTTGTGTCT GACGNGAATA ATGCCAAAAT 180  
 CCTCAATAAC GNCCAGGACC GGTITGAAGT TAATGTGGCA GAACTTCCAG AGGAAATNGA 240  
 CATNTCCACA TACATCGAGC AGAGCCGGTA ANCACCACGT GCCAGAGCCG GNCCANCCTG 300  
 AGNCGACCGT ATTGTAGCTT TTAACNCCC TTTNCCAGGC GACCATTTTT TGNAAAAGTT 360  
 NGAGGTTTGT TTTNNTGGNT TTAAACTTTN TTN 393

SEQ ID NO:5598

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06652

## SEQUENCE DESCRIPTION:

GATCAGAAGG CTCTGGNCAA GAGAATGAAA ATNAGGATGA GGAATAATAA ACTCTTTTGT 60  
 GCAAGCAAA 69

SEQ ID NO:5599

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06653

## SEQUENCE DESCRIPTION:

GATCTCTTTG TCCCTGAGGT GTCAGCTGCC AACAAGAAGC ATTAGAACAA ACCATGCTGG 60  
 GTTAATAAAT TGCCTCATTC GTAAA 85

SEQ ID NO:5600

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06654

## SEQUENCE DESCRIPTION:

GATCTTGGAG TCGTGGAAT GCTGCCCCAC CGGGTCCTGC GCCGTCAGCA CAAGCCACGC 60  
 TTCACCACCA AGAGGCCCAA CACCTTCTTC TAGGTGCAGG GCCCTCGTCC GGGTGTGCCC 120  
 CAAATAAACT CAGGAACGCC CCGGTGAAA 149

SEQ ID NO:5601

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06656

## SEQUENCE DESCRIPTION:

GATCGATGTG CTCAGCCAAA TNTCTGTTT GAAATATCAT GTTAAATTAG AATGAATTTA 60

TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAAATATAG AGACAGGAAA 120

SEQ ID NO:5602

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06659

SEQUENCE DESCRIPTION:

GATCAAAACC AAAAAAATG NACCAAAGGC TTGGGTGGTG AGGGTGCTTA TCCTTTCTGT 60  
TATTTGTAG ATGAAAAAC TTTCTGGGA CCTCTTGAAT TACATGCTGT AACATATGAA 120  
GTGATGTGGT TTCTATTAAA AAAATAACAC ATCCATCGGA AA 162

SEQ ID NO:5603

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06660

SEQUENCE DESCRIPTION:

GATCCTGTTC TGTAATAAC ATATTTGCC TTGAGTAAAT TTGTTGTAAG CTAAA 56

SEQ ID NO:5604

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06661

SEQUENCE DESCRIPTION:

GATCCTTCTT GTATCTTGAA GTTTGTACT TGGGATTCTT GGACTGATAA ATGAATCATC 60  
ACATTCTTCT GGTAATATT TTCTTGAAA 90

SEQ ID NO:5605

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06662

SEQUENCE DESCRIPTION:

GATCTGAAGA AGATGATGAA GTTGTGGCAA TNATTAAGGA ATTGTTAGAT ACTAGAATAC 60  
GGCCAACTGT GCAGGAAGAT GGAGGGGATG TAATCTACAA AGGCTTTGAA GATGGCATT 120  
TACAGCTGNA ACTCCAGGGT TCTTGACCA GCTGCCCTAG TTCANTCATT ACTCTGAAAA 180  
ATGGGAATNC NGNCATGCT GCAGTNTTAT ATNCCGNNN 219

SEQ ID NO:5606

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06664

## SEQUENCE DESCRIPTION:

GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60  
 GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120  
 CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTTC 180  
 CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTTGCCTTG TTGCCTTATC 240  
 TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289

SEQ ID NO:5607

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06666

## SEQUENCE DESCRIPTION:

GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC AAAAACTAA GCAGGACCAA 60  
 GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120  
 CCCATGGTCG GGGCGTCCAC GGCAGGGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180  
 TTTNTTTTTT NAAATTTTAA ATNCTTTGGT NTTTCN 216

SEQ ID NO:5608

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06667

## SEQUENCE DESCRIPTION:

GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60  
 ACATTGACTT GAAAAATTTT AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120  
 TGAGAGACAC TTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTCTCCA 180  
 GAACTAAGGC ATTAAGAAA ATAGCAAATA TAAAAAATA AAAGTGTAC TTTTTCCTT 240  
 CTTTCTTTT ACCTTAGGT TAATATCCAG TATTATGTGT TATCCCNTG GATAAGTATG 300  
 CTTTATTTTA CCTCNGTTAA AAATTAAT AAATGATTTC TATTCATAAA 350

SEQ ID NO:5609

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06668

## SEQUENCE DESCRIPTION:

GATCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCCANAAAC 60  
 TACCTNTTGC CCAAAGAACA TNCTCAGTAT TTGGGGCATT TCCTN 105

SEQ ID NO:5610

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06669

## SEQUENCE DESCRIPTION:

GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTGTG ACAAGACACC 60  
 CAGCACTGAA AGTCCCGCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTTGTG 120  
 CCTTGTTGGG GGAAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 180  
 AAGGAATGAG TGTACCGTGG GGAGGGAAGG GGCCAGTGGA CCTTTGTAA GCTTCCACT 240  
 CAATAAATG AACCTGTATG GCAAA 265

SEQ ID NO:5611

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06670

## SEQUENCE DESCRIPTION:

GATCCATGTT GAACAATACA TGTAGGTTCT TTTCCACGC AATGTAAGAN CATGATATAC 60  
 TGTACGTTGG AAAGCATTTA CCTTATTTAT ATACCTGAAT GTTCCTACTA CACAAATAAA 120  
 CATATATTAA ATTCTAAA 138

SEQ ID NO:5612

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06672

## SEQUENCE DESCRIPTION:

GATCTGTGAT GCCCCACCGC CACCCTACT CCCTCAACC CTCCTCTTT CTGCCCATT 60  
 CCTCCCACCC CCTCACTCCC ATTCCTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120  
 CAACAAAATN GGATAAANAN ATAATTTTTT AAAACTTAAA 160

SEQ ID NO:5613

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06673

## SEQUENCE DESCRIPTION:

GATCCTATGT NCTGCTTGCA CAGAGGCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60  
 AGAGCTGCCC TGTCTTTNAT TGAGCCTTAG CATTTCCCTC TCAGGCTTCC TCTCAAGCTC 120  
 AAGGAACTCA CCCCAGATA AGAAGCTGGT GCCTCTTGTC TCTCTNATT CAGAAACGGA 180  
 CTTTCTNATC ATGCTTTCCT ATGGTGGGTA TGNGNNN 217

SEQ ID NO:5614

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06674

## SEQUENCE DESCRIPTION:

GATCCAGAA TTCAACCTGT ATTTATAGAT GGATAATGTA NNTAGCTAAT TTTTGGTTTA 60



AATGANCTTN TTGGGTTAGC TTNCGTAAAT GNTATAATTT TTACTGTTN 109

SEQ ID NO:5615

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06675

SEQUENCE DESCRIPTION:

GATCCCCAGC TGGACTCCCC ACCCCCTGGC TTCCCCACCT CTCCAGGNGT CAAAGGTGAA 60  
CCGAGTCCAG TATTAGCTGA ATGTCATTTT GTACACCACA GCTCAGTCAG CCCATGGGCT 120  
TCGTGAACTT TGCTCCAACA CACTGATGTG TGGGCTTCCC ACAGCAGGAC TGACTTCCCC 180  
CTTTCTGTTG TTTGCACATN CCCCTCTTAC TGTACTGTCA ATAGATATTT TTGAGATTTA 240  
TTTTTAAATA AATATTCAAC TTGCAAA 267

SEQ ID NO:5616

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06676

SEQUENCE DESCRIPTION:

GATCAATAAT ATATAAAATN TGAGTGTGGG TTTGTATCTA ATAAAGTATG CCAACACCAA 60  
A 61

SEQ ID NO:5617

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06677

SEQUENCE DESCRIPTION:

GATCTTGAGG CCCAACATGC TTGACTCTGC CAAAAGTCT CCTTCCTCAG CAGGATGCAG 60  
CCTATTACAC TCAGCACAGN ATCTGGCACT CTTAGGTTCC CGGTCCATTT CAAACCTCCT 120  
GCAACCAACA AAAGGATAGT TCCTTAATAA TTTGTCAAGC CTACCTAGGG CACTGCTAGT 180  
AGTCTTACCA TTATTCACAA ATAGGGCTGA AACATCTAAA ATTACCCAC TTAGTATTTC 240  
ATATCCCTTC AACGTTCTAT CCTAAAGCTA ATGTTTCTTA GTGCTAATTA NAATCGTCAG 300  
TCTATTGACA NTNTGACAAA GGGTAAGAAA 330

SEQ ID NO:5618

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06678

SEQUENCE DESCRIPTION:

GATCCCAGGN TTCTGCGGAC CGACGATACG TTAAATGTT GTTCTAGTAA ATATTCTTGA 60  
ATGTATTAAA ATGGCTGAAA CAAA 84

SEQ ID NO:5619

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06679

SEQUENCE DESCRIPTION:

GATCGTGTTC TNTAGATGAA ACCATCAAGA ACCCCCGCTC GACTGTGGAT GCTCCCACAG 60  
 CAGCAGGCCG GGGCCGTGGT CGTGGCCGCC CCCACTGAGA GGCACCCAC CCATCACATG 120  
 GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG TTAATTTCATT TTACAAGGAA 180  
 GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TAAATAAAA TGTAAGACTT 240  
 CAAA 244

SEQ ID NO:5620

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06680

SEQUENCE DESCRIPTION:

GATCTTCATT AGTCAAGNTT TAGTTATTN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60  
 CATTAAACATA CTTNATTAA AGAAAATTG GAGACTGTTN NN 102

SEQ ID NO:5621

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06681

SEQUENCE DESCRIPTION:

GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60  
 TAAATGTAA A 71

SEQ ID NO:5622

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06682

SEQUENCE DESCRIPTION:

GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60  
 TCAAGCCTAT TTGTGCATTT CCTTTTNTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120  
 GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCCTCCTA GATTTCCTCA 180  
 TGTNATGCCA TGCATTATA TATCTNACCA TTAATTTTAC ACTAAGGATG CTTCAACATA 240  
 TAATAANNNGG TGCANGNTGG AAGCAANN 269

SEQ ID NO:5623

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06683

SEQUENCE DESCRIPTION:

```
GATCTCCTTT TCCAGTGCTG CACACTCCTG GTTTGGAAGT TTAATGGCGT TGCAACGGAA 60
TCCTATATNC AGTTTCCTGT AATTTAATTG AAGAAAAATG CATCCAAATN AAGACTTTAT 120
TATTAACNGA CCAGATNGCA TCAGAAATCA TGTGTCTGTT ATNATTATCA GAATATGTCT 180
TAACTTTTNN GGGCAAAGTT AACACTGAAA GTTCTAGCTT AAGTGTGAN ACTTTGTGG 240
GGNAAAAAAN TCACCTTTGA AACTCAGACT TCAGNGTATA CCCANTAATT TAANGTTCNT 300
GTGAAATGGT TTAATGTGT NGGACTCGTA ATGACTGTTT TANTGGTTCC AGTTTCTNCA 360
GNGTGGGTAN TTGGN 375
```

SEQ ID NO:5624

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06684

SEQUENCE DESCRIPTION:

```
GATCTGATAA CTTGAATTCA GAATATTAAG AAAATGAAGT AACTNATTTT CAAA 54
```

SEQ ID NO:5625

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06685

SEQUENCE DESCRIPTION:

```
GATCTGTTTT TATAAAGTGC TCCATGATTC TCTGAAAACA GTATACTATG TATCTAATTT 60
TTGGATACAG GATGGACATA CGTACTCAAA CTGTGTTTTT CAATTGTAC TGTATTTGTT 120
TCTCTCGACC TGACTTAGTG ATAGAGGTAT ATTAAAGTNT TCCACTAGCA TGGTAGATTA 180
AA 182
```

SEQ ID NO:5626

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06686

SEQUENCE DESCRIPTION:

```
GATCCTATGG NTTTTCCCGG CTGGTTGCCA CTAAGTGTACA ACATTAGTG CCCACATCCA 60
TCTNTGCCAT TAAGCTTTTT TGAGACATGA GAGATGCCTC TNCCTGCTG TATGACATGC 120
ATTTGGGAAG TTGGAAGAA ATGACAAANT CAGGGAGAAA ACATCCAAGC TTCTTACCTG 180
TAGATAGANT CAGCCCTCAN TTGGTGCTTA TNACCAGTTA TTCANGAACA ATAACANCA 240
CAAAATTAGT AGACATCCAA GAGGCACATA TTAGGGCCAA AGATAGCATC ANCTGTNTT 300
GAGGGANCTG TAGTTTTCG CATTNNATG NCATTTTAT AAAGGTACTG TNATTNTTTC 360
ATTGANN 367
```

SEQ ID NO:5627

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06687

SEQUENCE DESCRIPTION:

```
GATCTAGTTT GACTTTCTAG TTAGTGGTGT TTTGAAGAGG GTATTTTATT GTTTTTTAAA 60
AAAAGGTTCT TAAACATTAT TTGAAATAGT TAATATAAAT NCATAATTNC NTTTCCCCTG 120
TTTATTGTAA TGTATTCTAA ATTAATGCAG AACCATATGG AAAATTTTCAT TAAAATCTAT 180
CCCCAAATGT NCTTTCTGTA TCCTNCCTTC TACCTATNAT CCTGATTTTC AAAAATGCAG 240
TTAATGTACC ATTTNANNTG CTTGATGAAG GGAGCTCTAT TGCCNTTANC AGNAATTGTN 300
GCTAAGGTAA TTCCNAATAG AAAGCTGCTT ATNNNN 336
```

SEQ ID NO:5628

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06688

SEQUENCE DESCRIPTION:-

```
GATCTTCTTG ACCTTCTCCA TCATCGCCAT CCTTTCCCAA AGGCCAAGGA AGTGACCTGC 60
CTGCTGGCAT TGGCCAGACC ACAGCAGCAC CTCCTCCATG CAGGCCTTAA CTTTCCCATG 120
GTCAATGCAG TTTTATCAG CCTTGCTTGG GATAGGACCT CCAAGGACTA AGGCCTCCAG 180
CCCCATGNT GACCCTTGTN ATCTCTCTGC CCCACATAAT TCTGTACTT TGCTATGTGC 240
TCCTAATGTA TCTAGTGTGT CCTGTGACAA CACTCATCAN ACTTCAGTGN AAATCACTTG 300
GTTTAAATTG ACTGTNTTNT CCTATAGACT GTAAGGNTCC ATGAGGGCAG GGCACATGTT 360
GGTN 364
```

SEQ ID NO:5629

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06689

SEQUENCE DESCRIPTION:

```
GATCCCGTGT GCCACCAGGA GGGAGTGCCA GCTATAGTCT GGCACCAAAG TCCAGGACAC 60
CCAGTGGGGT GGAGTCGGAG CCACTGGTCC TGCTGCTGGC TGCCTCTCTG CTCCACCTTG 120
TGACCCAGGG TGGGGACAGG GGCTGGCCCA GGGCTGCAAT GCAGCATGTT GCCCTGGCAC 180
CTGTGGCCAG TACTCGGGAC AGACTAAGGG CGCTTGTCCT ATCCTGGACT TTTCTCTCA 240
TGCTTTTGCT GCAGAACTGA AGAGACTAGG CGCTGGGGCT CAGTTTCCT CTTAAGCTAA 300
GACTGATGTC AGAGGCCCCA TGGCGAGGCC CCTTTGGGCC ACTTACN 347
```

SEQ ID NO:5630

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06690

SEQUENCE DESCRIPTION:

GATCAAGGTG TGAATACTG AAGAAAATAA CTTGCTGGCT ATATAGGAAA ATGCTGTGGA 60  
 AATGAACTGT GTATATACTT CTGGGAGGAA CAAATTTAAT CATTTCTCCT GTTAAGCACT 120  
 AATCAGTATA GTGCAACTCC TGGTTCTGTN CTGTATTTNA TATGCAACAT ATATGCTTTA 180  
 ATATTTNNNT GTTGTNCAAT TAATATTTNC AATTTGTTA ACCACTTTGC TGCTAAGATT 240  
 TTNCCGTCCC ATTCCCATTT NTCCCTTTAC AATNNTAAAC ANGTTTCTTC ATTAAANNCT 300  
 ATGGTGATGA AAAANAAN 318

SEQ ID NO:5631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06691

SEQUENCE DESCRIPTION:

GATCTGTGGG TGTTTTTAAA AAAACTCAAC CTATCTGGTG TTTTATTTTA ATGGATAAAA 60  
 ATGTAATTTT CCTAAGGTAG CAACTTATTT CCAAATTAAT ATAGATGANA AATAGATNCC 120  
 ANTTNGACTA AATTGAAAGC TTTTNTCCT ATATTTNCAT AGCCTTTGAG AATATTGNTN 180  
 AGTGN 185

SEQ ID NO:5632

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06692

SEQUENCE DESCRIPTION:

GATCAAATAA ACTCANTTTT TTATGGTTAC TGTAAAAAGA CTGTNTAAGN CAGCTCAGCA 60  
 CCATGCTTCT NGTAAAAGCA GCTTCANTTA TCCACTGGGG TTATCTTTTG ACAACTTGCC 120  
 ATTATCTGNN 130

SEQ ID NO:5633

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06693

SEQUENCE DESCRIPTION:

GATCTTAACA AGCTTAAAAA AGAATTTTAT GACCAGAATC CAACAAGAGC TCTATTTTGG 60  
 AATTGTGCC AAGTTGGTGA TGTTTACTCT AAAATTAATA ATAAACTAC TTGTAAGCAC 120  
 AAA 123

SEQ ID NO:5634

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06694

SEQUENCE DESCRIPTION:

GATCTGAACT GCCTCTCCT TTCTCTGGCC TCTNCCCCCT TCCCTCTTCT CTCAGCTAG 60

GCTAGCTGGT TTGGAGTAGA ATGGCAACTA ATTCTAATTT TAATTTATTA AATATTTGGG 120  
 GTTTTGGTTT TAAAGCCAGA ATTACGGCTA GCACCTAGCA TTTCAGCAGA GGGACCATT 180  
 TAGACCAAAA TGTACTGTGA ATGGGTTTTT TTTTAAATT AAAAGATTAA ATAAA 235

SEQ ID NO:5635

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06696

SEQUENCE DESCRIPTION:

GATCACGCTA CTGCACTCCA GTCTGGGCAA CAGAGCAAAA TCCTATCTCA AAAAATATAT 60  
 ATATATTATC CAGCCCCAAA TGTTTATGGG GTTGTATTG ATGAACCCTG CATTAAACAA 120  
 TCCCACAGTC GGTGCTGCGG TGAGCCGTGA TGGGTACCAC TNCATTCCAG CCTGGGTGAC 180  
 AGANTGAGAC CCTGCTNNA AAAAAAANGT NNAANTTGT TTCCCNATAT TTTGGNNGGA 240  
 TTNGTGGGGN 250

SEQ ID NO:5636

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06697

SEQUENCE DESCRIPTION:

GATCTTGTGT ATTTTGTCC ATATCCAATG TTATATGAAC TAATTGTATT GTTTTATACT 60  
 GTGACCACAA ATATTATGCA ATGCACCATT TGTTTTTAT TTCATTAAAG GAAGTTTAAT 120  
 TTAAATTGAA A 131

SEQ ID NO:5637

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06698

SEQUENCE DESCRIPTION:

GATCTTAATG GGCAGGGTTA AGAAAGTTAT TAAAAATAAA GTTACCTATT CTAATAA 58

SEQ ID NO:5638

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06699

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGTGTTATG CAGAGAATTA AAGGGTGATG TGATAAAGTG ATTGGGTCGT 60  
 GCTTTATGTT GGCAAAAAAA ATCTGGAGTA TAAGAAGTTG CTGACTGGG TGATTGGAA 120  
 GAGATTGGGA GACTGGGGG ATTCAGANCT GAAGGANCAG GCTATAGGCT GTAAGGCAAA 180  
 ANTATACTTG CNATGTTCAA ATTACTNAGA GGNTTNTACC NNCNTGCTTT TCTTTAAAN 240  
 ATAAACNTTN 250

SEQ ID NO:5639

LENGTH:354

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06700

SEQUENCE DESCRIPTION:

```
GATCTTGTTA TTGATTAACC ATTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60
TACGTCTAGT GGCTGAAAAT NTTTGCATTT GTTCATTTGA CTAATGGTGT GATTTTNGTT 120
TCTATATTAT NAGACCTGTA ATGTTTAAA ATGTATTNA TTAAATTTGG ACTGGATGTA 180
TGTCTCTAGC AATACGAGGT ACTTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240
GAGATAAGAT GATGGTCGTT TAANTTTNGC AATTTTTTTT GGCCTGCAGG GATATTTTGT 300
GTTTATGTGT CCAAAANNGG ANTAANTTGG CATTCTTG TG CCAAANGTTG TTNN 354
```

SEQ ID NO:5640

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06701

SEQUENCE DESCRIPTION:

```
GATCTGCATT CTGTAAGA GGTACTTCC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60
GCGTAGAGCG GAAATNTTGA CTTTAGTTAA CATTGGGTNT AGCATTTC CA GTGCAGCATT 120
ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTCAC TTTGT NGTNAAATTA 180
TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTTNN TTTAAATGA CTTCTGCTAA 240
GCACCCAGAA GATAAANTTG ACATATTTTT NTAAATNTAAG CATACTTTT TNGTACATNG 300
TGTNCATTCT TGANTAANAT GNGGTTCTGT GTTGGCTTGT NN 342
```

SEQ ID NO:5641

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06702

SEQUENCE DESCRIPTION:

```
GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGACTGTTGT 60
CACATTTCTT TCTTGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120
CTAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180
ATATGATGGG GTCACCGGNT TGATTATTTT TTTGCTTCAA AAGCAGTGGN CTGTNTTTNG 240
GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272
```

SEQ ID NO:5642

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06703

SEQUENCE DESCRIPTION:

GATCGCAATG AATTTNTAAA ATTACTATTT AANATATTGT TGAGATTCCA TTACCTCCAA 60  
 TCAGTCTTGG GACATTAGAA CAGTGGTATA ATTAAGACTG TATGTTTAAA TTGAGAAATT 120  
 TTGCACAAC TTAACAAGTA GCAGANCTAA TTGTNCACTG ATGGCTTTAA AGATGAAATA 180  
 NTTCTGTGAA TNCATGANAC TGTGAGGGNC TCTNCGTGGT TGTCTAGGTT TATTTATATG 240  
 CATNCTCATT AATNAAAGTN NTTN 264

SEQ ID NO:5643

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06704

SEQUENCE DESCRIPTION:

GATCTTTTT ATTTTATAC ACATGACAAG ATTTTACATC AAGAATAGTC AGTTAAATAG 60  
 TACAAATTTA CATTATGAG GAATGTTAAA AAAAATTCAA CTAAAAACC CACTTTTTCC 120  
 TGTGACCCAT AATCCACAT TTTACAGTGC AGGGGAGAAG GGGATTAGGG GGCATNCAAA 180  
 ACAAGTCTCT CCCAAAAAGA AAAATGCAGG CATGCAGGGN CGGCGTAATC ANTNCCNGN 240  
 NNNNNNN 247

SEQ ID NO:5644

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06705

SEQUENCE DESCRIPTION:

GATCCATACA GGTTGTGTGT CATCTGTCCT CTTGAGGTTT AGGAGATTCT AAATTGAATA 60  
 TTCCACGGTT TGGGACAGCA TNCGGAAGTT TTCCCTATNA CTTTATATTT TGTATTATGT 120  
 CAAATGTTAT GGCAGGGCCC AAATAGCATA GCCACAAGTT TGGTTTATGT GGCATAAAA 180  
 TTCTAACCAA ACCCCAGACA TAGGGAGTCA TTTGGAGAAA GCCTGTATGT GGTGTTTTAA 240  
 CCTAATAAAG TTGATGAGAG AGAAGGGGAG AGGAAGCGAA CATAAAGCGG GTCAAGTGTA 300  
 GTGCATCTTT TGTATTGN 318

SEQ ID NO:5645

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06706

SEQUENCE DESCRIPTION:

GATCTTTTGA CATACTCACT TTGAGTGGCA TATGCCCAGG AAAATATTTA AAAGAAAGAA 60  
 AAGCTATTTT TACAAAGTTT TCTAGCAGTT CCACTCAGAT AACTTTAAGG GGGAAAAAAG 120  
 CCCAACGNNT GGNATGGTT AAGTAAATTT NGGTGTATTG CTAGTGCTAT CNCNGANTGT 180  
 GTATGATGGC CNTNCAN 197

SEQ ID NO:5646

LENGTH:210

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS06707

SEQUENCE DESCRIPTION:

GATCCCCGA ATAACCTTTT TCAATCAAGT TGAAAAACCA AACAGCTATG TAAAGTCCCC 60  
 AGGAGAGCTC TTTTCCCTT ATNTNCTCAT TTNTTTGTT ATAACTGTT TAAATAGTTC 120  
 AAATGGTTGT NCATGCCTAG GGGATGAAAC CTATGTAATA GAAATGTACT GTTTATGAA 180  
 TAAGGAGTAA AATTNTTTA AAAAATTAA 210

SEQ ID NO:5647

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06709

SEQUENCE DESCRIPTION:

GATCTGAAAC AGAAACCACC CTCCGGAACC GCCCAAGAAA GGNCTGCTCC ANANACTCTT 60  
 CAAGCGGCAG CATCAGAACA ATTCCAAGAG TTCGCCAGC TCCAAGACCA GTTTAACCA 120  
 CCACATAAAC TCAAACCATG TCAGCTCGAA CTCCACCGGA AGCAGCTAGT TTCGGCTCTG 180  
 GCCTCCAAGT CCACAGTGGA ACCAGCCAG ACCCTTCTCC TTAGAAGTGG AAGTAGTGGA 240  
 GCCCCTGCTC TGGTGGGGCT GCCAGGGGAG ACCCCGGGAG CCGGGGAAGG AAGGCCGTCC 300  
 ATCCCGTCGA CGTAGAACCT CGNGGTTTT TCAAAGNAAT TTCCACTNNG GTCTGTTTTT 360  
 NCGAGGGGGG NN 372

SEQ ID NO:5648

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06710

SEQUENCE DESCRIPTION:

GATCCTTGGT ACCCTAAAA AGATTGCCAA TTTTTCAT CTTTGCCATA TGGAGGACTG 60  
 TGACAGACTT TGGACAGTGG CCTCTTGAGT TCCTCTGCAG TTTTGACATT TAGGATTTTG 120  
 TGTCTTTTAA ACTGGAAAAT CTTCTAGCAT GTTGGGTTGT TACAGAGTAT ATTTTGTCT 180  
 GCAGCTGTTT GTTGCCCCAT TCCTAAGAGG AGTTTATCCA TCCNGAAA 228

SEQ ID NO:5649

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06711

SEQUENCE DESCRIPTION:

GATCAAAACA AGATTTTCCC AGTAAGAATA TACTGGGACA TAACAAATGA AAATATTTAT 60  
 ACCAAAATAC CAAAGTNAT TCACCTCTTT AAAATATCCT ACTATAGTCT AATTAGTAGC 120  
 TTGTNCAAGA CCAAGTAACC ATTTTNNCT GCNCTTTTGA NTGATGATTA GAAATTCAAA 180  
 CAANGTATTT NNN 193

SEQ ID NO:5650

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06712

SEQUENCE DESCRIPTION:

GATCCAAGTG CGGAANTCAC AGAAGGAACG GATTACAATT CTCCTNCAGN TAGGGAACCC 60  
CTAAGNCCAC AGAAGATAAG GAGGAAACAA TACAGAACT AGAGACCCTG GAGAAGAAGG 120  
AAGAAGAAGT AACTTCAGAG GAGGATGAGG AGAAAGAAGA AGAAGNAGAG ANGNNN 176

SEQ ID NO:5651

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06713

SEQUENCE DESCRIPTION:

GATCAAGTTT TTAATTTGT NCTNTTATTG TTTTAAATTA AGAACTTTTT GAACTAAAC 60  
CAGAACTCT GCCATAGTTC ATTGATTTTA ACATGAAACA TTTATTTACA AGATGATATC 120  
AAGATTACTT TTCACAAAAT AGGCACATTA TATCANCAT TGCNCTGCT TTGTAAATTT 180  
NCCATCCAGG ATTTTGGGGT GGTATTCATG TGAAATTAAA GCAGATTCTC TAGCAGTTTC 240  
CTATAGCTAC AGTTTTNNNN NTNNCCCTGG NTN 273

SEQ ID NO:5652

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06714

SEQUENCE DESCRIPTION:

GATCCTGTGT GGAGAGGGAA TGTGAAATTA ACATCATTTT TTTTGGGAG AGACTTGTTT 60  
TGGATGCCCC CTAATCCCCT TCTCCCCTGC ACTGTAAAAT GTGGGATTAT GGGTCACAGG 120  
AAAAAGTGGG TTTTAAAGTT GAATTTTTTT TAACATTCCT CATGAATGTA AATTGTNCT 180  
ATTTAACTGA CTATNCTTGA TGTAAAANCT TGTCATGTGT ATAAAAATAA A 231

SEQ ID NO:5653

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06715

SEQUENCE DESCRIPTION:

GATCAACATG GTGGAACAAA ATGATAAAGA NCAGAAAACA TTTCAATATA TTACTAATAA 60  
CTTTTCCAA TATAATCCT AAAATTCCTA TAACATAGTA TTTTACAGTT TTATGAAGCT 120  
TTCTATTGTG ACTTTTATGG AATTAAGAGA TGAAGAAGAT GAGATATTTT AGCATTTATA 180  
TTTTTCAAAA TTATATGTAT ACTTAANANT AANGTANCTT TATGCAAA 228

SEQ ID NO:5654

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06716

SEQUENCE DESCRIPTION:

GATCACAAC GTGAAAAAAA ACTGCACACG CAAAAGACTA CAGGGAAATA TGTAATTNAT 60  
TATNTTGT TTCTCTCAGTG ATAAGATGGG GTGGTTTCTT CTTTGTACTT TTGTATTAAT 120  
TTCTTACGGT GTTTGTATTA CTTTATAAT CAAGAACTTT GTTTTAAAA ATAAATCAGA 180  
AA 182

SEQ ID NO:5655

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06717

SEQUENCE DESCRIPTION:

GATCGTAGCT AGTTTGTATT GTCTTGTC AA TTGTACAGAC TTTTAAAA AAACAACCAC 60  
CAGTGAAATG TGTGTGTATA CAATAAACTG AAA 93

SEQ ID NO:5656

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06718

SEQUENCE DESCRIPTION:

GATCAACATT TATGACCTAA GTCAGGTAAT ATACCTGGTT TACTTCCTTA GCATTTTNAT 60  
GCAGACAGTC TGTATGCAC TGTGGTTTCA GATGTGCAAT AATTGTACA ATGGTTTATT 120  
CCCAAGTATG CCTAAGCAG AACAAATGTG TTTNCTATA TAGTTCCTG CCTAATAAA 180  
TATGTAATAT AAATTAAGC AAACGTCTAT TTTGTATATT TGTAAGTAC AAAGTAAAT 240  
GANCATTTTG TGGAGTTTGT ATTTNGCATA CTCAAGGTGA GANTTAAGTN TTANNTAAAC 300  
CTATAATATT TNNNCTGANA CNCNNGNACC N 331

SEQ ID NO:5657

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06719

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAAATCCAC CAGGAANTCC TACTGACTCT CTTNTAAAA TATAGTCATT 60  
TAACNGTCAA AAGAGTCCCC AATAATGTCA GTNCTAAGAT TNCCCCTATT TTTAAAAAA 120  
ACAAAGTAAA TGAAGACTCA AAGAGCAAGT AACTAGTCTA AATTAGATAG TCACAGGTGG 180  
TAAAGCCAGA AATCTGTCTG GNCAGTCTAA CTCTATACAN CCCAGGCTTT TAANTATTAG 240  
AAAGCNNNNN 250

SEQ ID NO:5658

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06720

SEQUENCE DESCRIPTION:

```
GATCTCAGTA TCATACTGAG ACACCTCCCC TGAGCCTTAC CTACTTAAAT TGGTAACCGT 60
CCTACCAAAA TTTGTCAATT TNAATCAAGT GAGGCAAGTT GCAAGGGAGC CAGAGATACG 120
TGAAAAAGA AAAGCAGAAA TACTGATACT TTCTAAGAAA GAAGTTGTAA TAATTNCTTT 180
GGCACATTGA CTTACTGATA TCTTTTGAAA TGCATAGATG ACTCTTGTGA ACCAANGAGA 240
GCAGTNGTGG TTNTTCCCCG GCGCAATAAA AATGCCTTTG TGTATCACTT GCGGTTGCCA 300
GTCATTCTG GTGCCAGTTG CTTTNTNNN CCAGAGGTTT GGCCTTNATT CTTCCGAAAN 360
NAGGGTGATG ATTNTTNGAA GNTGGGGTTT TCCTNACCAN ATTATTNTN 409
```

SEQ ID NO:5659

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06721

SEQUENCE DESCRIPTION:

```
GATCTGGAAG AGTCAAGAGA AGAGAGCAGA AAGCAGGCTC TTGCTGCTAA AAGAAA 56
```

SEQ ID NO:5660

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06724

SEQUENCE DESCRIPTION:

```
GATCTAAAGA TGATGGAAAA CATCAGCTAC ATTAAATACT CATAAGCAAA ATAAAGGCTG 60
GCCTGTAAA 69
```

SEQ ID NO:5661

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06725

SEQUENCE DESCRIPTION:

```
GATCCAAAGG GAAGGGACTA TGCAAGGGCA TTTATAAACG NTGGACAAGG GTTCATTATA 60
GAACACCANT GTNATGGACT ATCCCAAGCA TGTACCACTG TGTCTCATGC ATGGTAAAGG 120
TCCCATAAAT GTTATTGCTC TCTTGCAGTA TAGTAGTAAT AGTAGTGGTA GCTGNTTTAG 180
GAGTAAAAAC AGCNAAAAAAN AGANNNNN 208
```

SEQ ID NO:5662

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06726

## SEQUENCE DESCRIPTION:

GATCTGAAAA AAAAGTTTCA CCGTTTGTTC TCTTACCTCA TTTTAAGAAG CATGTGAAAA 60  
 TGGGATACTA TAGACTACTG AGAATTTTCAG AAATTGAGAA CAATTTTATA ATAAAACGGC 120  
 TATATTTGAA GAGAGANTAC ATTTTATATA ANCAGGAAAA TACATTTGAC ACTTTATGGA 180  
 ATTTNATGAG ACTTTTGTG GGAACAGAAG GTCTTCAAAT TGTAAAATGT AAAGNTTGCN 240  
 CTNTTTNTTA NGTCTTTAAC AGGGGTGTNT TTCATTGTNT GTTTTGGGTA TGGCTTTGGN 300  
 ATAANTCATT NTATATNTNA NTTGAN 326

SEQ ID NO:5663

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06727

## SEQUENCE DESCRIPTION:

GATCTGCACA GTTTGGTTTT TGCACAAAAG TCATTTAAAA AAATCTGAGT AATTGTCAAA 60  
 TATTAAGAAGA AAGNTATTCT TCCTGGTAAG GAATACAGTT TTNAGTCAAA GTGGCCATTA 120  
 CATCCNCTTT TNAATTTACA TAATACAGNT ACTTGTGAAA GTTGTGTGG TGTGTATGC 180  
 CAAGNNAATN CTTTTTTATT GGTGCCTATA TTGTCACANT TNTNTN 227

SEQ ID NO:5664

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06728

## SEQUENCE DESCRIPTION:

GATCCACCCT CCTCGGCCTC CCAAAGTGCT GAGGATTACA GGCATGAGCC ACCACAGCTG 60  
 GCCCCCTTCT NTTTTATGNT TGGTTTTTNA GAAGGAATGA AGTNGGAACC AAATNAGGTA 120  
 ATTTTGGGTA ATCTGTCTCT AAAATNTTAG CTAAAAACAA AGCTCTATGT AAAGTAATAA 180  
 AGTATANTTN CCATATAAAT TTCAAAATTC AACTGGCTTT TATGCAAAGA AACAGGTTAG 240  
 GGACATCTAG GTTCCAATTC ATTCACATTC TTTGGTTCCN GGTAAAATCN GGNGGNNTAT 300  
 ANCAATTCT ANTGGGGTT TNCN 324

SEQ ID NO:5665

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06730

## SEQUENCE DESCRIPTION:

GATCCTTCCA CTTGGCCTC CCAAAGCATT GGGATTACAG GCGAGAGCAC TTGGTTGGCT 60  
 AAAATATTTA TATTACCTG NCATNATTTG TTGATTTGGG GGCTAGGGAG TTCTTAAAC 120  
 AACAATAAAA AATCTTCTGT GGCTGCAAA 149

SEQ ID NO:5666

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06731

SEQUENCE DESCRIPTION:

GATCACAGTC TTGAGGTCCT CTAGCAGGGG TGAGGGAGAG CAGCGACTTC AGCTGAGTCC 60  
 CTGCCAGTGG TTAAGCAAAC AATGGTTTCA AAATTCAAGG TCCCCAAATG GCAGCATTTT 120  
 ATGTTCTGAC CTGTTTGTGT TATATAGTGG TGTTTTNNNN CCNCTTTGGA NCTCTTGNGT 180  
 TGTTAATAAA ATGAAATGAT TACTTTTNAA TTAAANTGAA AAANGTAAAA AANAAN 236

SEQ ID NO:5667

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06732

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCCA ACCTGGGTGA CAGACTCTGT CTCCAGAACA AAACAAACAA 60  
 ACAAAAAGAT TTTATTAAAG ATATTTTGT AACTCAGTAA A 101

SEQ ID NO:5668

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06733

SEQUENCE DESCRIPTION:

GATCCATGGA CCATCTGGGT CATGGCGCCT GGTTCAGAC AACCTGAATC AAATCTTAGG 60  
 GGTGGGGCTT TGGGATGTCA TTGTTCAATA GGCACCTCAG GAGATTCTGA GCACACCNNT 120  
 GTTTGAGAAC CACTAAATN AGGAGTGGGA AAAAAAAT AGGTGTTTGT TTAATTTAGA 180  
 GCTGAGCTGN GANGNTAATA TATTTNNTT GTCANTGCCA TTACCAGNTA TGCACTGNNT 240  
 CTTTATACC TACANTTTN 259

SEQ ID NO:5669

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06734

SEQUENCE DESCRIPTION:

GATCCTGAAG CTTACTATGC AGCCTACAAA CAGCCTTAGT AATTAAAACA TTTTATACCA 60  
 ATAAAATTTT CAAATATTGC TAACTAATGT AGCATTAACT AACGATTGGA AACTACATNN 120  
 ACAACTTCAA AGCTGTTTTA TACATAGAAA TCAATTACAG CTTTAATTGA AAATAAAC 180  
 CATTTTGATA ATGCAACANT AAAGCATCTT CAGCCAAA 218

SEQ ID NO:5670

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06735

## SEQUENCE DESCRIPTION:

GATCAGATTG AGGTTATGCA TTTTGGCAA GAAAACCACG GCAATGATAT GCCCGTCTCG 60  
 GTGCATTNA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTACTGGTGA TGTTAACCTT 120  
 GGTTAAGGTT AGTAGCTTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTAATATA 180  
 ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA 222

SEQ ID NO:5671

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06736

## SEQUENCE DESCRIPTION:

GATCCTTGAA TGAAGAGGAA CCCTCACCAT GGGGCTTACT GTTATAATGT TTCTTCATTT 60  
 ACTGTTATTA AAAGATTAT GAGAAA 86

SEQ ID NO:5672

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06737

## SEQUENCE DESCRIPTION:

GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCCTT CCTCACCTTC CCACCCCCAC 60  
 ATGGCTTCTC ANTCGGGGAA AAGATACAAC TTAAC TTAA ACCAAGTNTT AAGTTTGTAT 120  
 TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGGC ATTCTATTGC 180  
 CTGAGAAATGT TCAAGAGTCC TGATATGACC TGTTGTTNTT ATCCTAAACA GTGAAAAATT 240  
 CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTCTGAA AGGTATCCNA 300  
 TATTTGGGGG TTTTGGGTTA CATATNNCTN ATGTNGGNTT TTAANCTATA GCTCTTCANT 360  
 TANNNTTACT CNATCCATTN CTTGAAAGGA N 391

SEQ ID NO:5673

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06739

## SEQUENCE DESCRIPTION:

GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGGG GCTGGGAAAC CTGCAGTATG 60  
 GNTTTACTNC GTCCCTATCA CTGGTGTGGC TGTTGGGCAA CCAC TTATTG CCTGACCTAC 120  
 CTCACAGGGA TGTTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGGAAAAATT 180  
 CAAAGCATT AACAATGTA AACAGGTAAA 210

SEQ ID NO:5674

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06740

## SEQUENCE DESCRIPTION:

GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNNCA GATTAAANATA CCTTTCCCAG 60  
 CAGGGGAAAC AGCAAACTTA AAGGTTCTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120  
 CCAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180  
 TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTTNAAA ANN 223

SEQ ID NO:5675

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06742

## SEQUENCE DESCRIPTION:

GATCATGCAC TGTTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTTTA 60  
 AGTGTAGACG TGAGTCCTTA AACATATTTN GNTTCTCTC TCAGGTTTAA AATGTTTCAA 120  
 ATGTAATNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180  
 AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTAAATTTAA 240  
 TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300  
 GGTGCATGTA AATACAGTAT GCNCTTTGGA TGTAATCCTT NGAAATGNCA GTGTTGNATG 360  
 GTAGGTTATC CTTNNGTNAA CCCTTNTCTC N 391

SEQ ID NO:5676

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06743

## SEQUENCE DESCRIPTION:

GATCCCTATA ACTCAAATA ACTGTTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60  
 AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACTT TTCTAGGATG AAGACAGCTT 120  
 ATNTTNAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTAATTAA TAAAATNCTT 180  
 GGTTTTAATT TGCTTGTCTT TTTGAATTCC NGTTTAAATA ATNTNNNAG NGNGCAAAGN 240  
 GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271

SEQ ID NO:5677

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06744

## SEQUENCE DESCRIPTION:

GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60  
 TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACC GCC AGGACTCCCC AGAAAAGCAA 120  
 ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAACTGG AGCAAA 166

SEQ ID NO:5678

LENGTH:386

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS06745

SEQUENCE DESCRIPTION:

```
GATCACAAAT TAATGTTGGG GAAAATAAAG ATTTAATATT TCTTTAAATA GAAAAAGAAT 60
TTGGTTTTCC TCGTTTAAGA GCAATGAGAA AATNATGGAA TGTGACTGT NTTGGCACA 120
CAGGACACGN ACCTTCATGG AAGTCCTTGC TCTGCGTGGC ATCTGTCAGC TTNACACCTT 180
TCATTCTTAT TCTTCACCTT TGCTGCTGAG CCTAGCTGTA CAAACTTNGC ACTTTCATT 240
GCTAATATAA ATTCAGTTTT ATTNTACCAT TTTAGAGACT ACTAATGGTT AANTGTAGAA 300
GGNGNGGGGT GNACATGTTT TTATGTNGNG TGTTTNAAG GATATGTTTT NTNACCCCN 360
GTNATGGTGG CAGCTTTNTN TTTTNTN 386
```

SEQ ID NO:5679

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06746

SEQUENCE DESCRIPTION:

```
GATCCAGGAA GCGGCTGGAG ACATTCCTGA GCCTCCTGGT CAAAACCTG GCACCTGCAG 60
AGACGCATAC CTAGAGGAAC TCTAACCCCG GTGTACCTGT ATAACTGAA CTGTGAACT 120
GTTTCGGTTA TCTCTGTCTT TTGAGGATGG CTTTGTCTG TTGCTGGTTA ACATTCACCT 180
TCCTCTTTT AGGAGTATTT TTCCATTATG TATTCATAAT AATGTTAATT TCAATAAATG 240
ACATTCATGC AGCAATTAAT 260
```

SEQ ID NO:5680

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06747

SEQUENCE DESCRIPTION:

```
GATCAACATT CCAGGGTTGG TAATGTTGGA TGATGAAACA TTCATTTTTA CCTTGTGGAT 60
GCTAGTGCTG TAGAGTTCAC TGTGTACAC AGTCTGTTT CTATTTGTTA AGAAAAGNTA 120
CAGCATCATT GCATAATTCT TGATGGTAAT AAATTGAAT AATCAGATTT CTTACAAACC 180
AAA 183
```

SEQ ID NO:5681

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06749

SEQUENCE DESCRIPTION:

```
GATCTCACTA TAGAGGCATC ACTAATTGGG GAAAGACAGA CTAGGTAATA GTCAGATGTN 60
ATATAGTATG TTAAACTAT AGGATGGCAG GTNCATGANT NTTGGTTGTA TTATCCTTTA 120
TNTN 124
```

SEQ ID NO:5682

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06750

SEQUENCE DESCRIPTION:

GATCTGAAGT TGCAGGTAA GCTTGTNTGG TCAACATTCC AGTGTGAAA AATAATTTAA 60  
ACAATCTTAT TCTCTTAATT CTTTGGCAA CAAAACTAT TAGTAATAGC TATTGGGAC 120  
CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGATAA TGGGAGATT AGATAATGTA 180  
TCNGATTTA AACCTACCAG TTTGTCCTAC CCCTTANGCG TTAAANATAA ANTATGCANC 240  
AAATTTGGNG GNANGNNGTG TGNNGTTN 268

SEQ ID NO:5683

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06751

SEQUENCE DESCRIPTION:

GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60  
GAAAGATTTG GACGTTAGAA GTTGTCAATT AAAGCAGCCT TCTAATAAAG TTNTTTCAAA 120  
GCTGAAA 127

SEQ ID NO:5684

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06752

SEQUENCE DESCRIPTION:

GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60  
AACTTGAGAA AATTCCTAN TGTATATGTA GTGGTAATAA ATGTTTAAAG GCTGCAAGGA 120  
TTGCATTATA AANNCTGTTT GTNGGCTTTC TAAGTCTTN ATNCTGTAT TGGGANTAN 180  
CAGATTTNAG AAAATGGATA TAAGCTGANA TGTATATTN N 221

SEQ ID NO:5685

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06753

SEQUENCE DESCRIPTION:

GATCATAAAT TTTCTCAGT GTCCTTTTGG TGTGAACAC ATATATCTGA AACCTGTATT 60  
TAACCAGATA TTTCTACTCA ACTGAATATA CAAGTGTAAG TTTGATTGGA AAATTGTATA 120  
TTATAAATGA AAATACAATA ATCAAA 146

SEQ ID NO:5686

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06754

SEQUENCE DESCRIPTION:

```
GATCCACCCA CCTCGACCTC CCAAAGTGCT GGGATTACAG ATGTAAGCCA CCGTGCCTGG 60
CCAAAGTTTT CTAATACCTG TTTATAATCC CCTTCTTTGT CCTCAGGTAA CACTATCTAC 120
TACGTGTCTC TNCAGATTAG CTTGCATTTC CTAGAATCTA ACTTATATAA TAAAAATAAT 180
ATAGTATATA CCCTTCTTTT GGCTTTCTTT ATTCAGCTAT GTGTGAGAT TCATTCATGT 240
TGTTTAGAGT ATCAGTTACT AAGTAGTATT CCATTTTNGG CTATATCAAA NNTNGTTGN 300
CCATTTACCT ATTAANGGGC ATTTNGCACT GGNTCCAGNN TGAN 344
```

SEQ ID NO:5687

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06755

SEQUENCE DESCRIPTION:

```
GATCTCTGTT TTGACTAAAC TAGAGGAAAA ATNATTGGAT GTGTTTATTC TTTTCTAAGC 60
AGAATGGTTT AACTTTGTAC TCTTTGAAAA ATAATGCTGA TTTATAAATC TCTGCCTATA 120
NCAGAATGGA AA 132
```

SEQ ID NO:5688

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06756

SEQUENCE DESCRIPTION:

```
GATCCTGCTG TGGCACGGGG CCTATGTGTC TCTGTCGCGT CTGCTGTGAA GACATGATGC 60
TCTATTTATT GTAGAGAGTG ACTTTATTTG CTTTCTAGAA TTGTTTATAA CAGATGGTAT 120
AAGAGAGGTA ATAAACAGAG AAAAATCTAT GCTTGTAAG AATACAAAAG TTAATTTTAC 180
CTACTATAAT ATGGCTGGCT GAANCTTATT TCCTCTCTNN GNAATAAATG TTCTANTGGG 240
CAAA 244
```

SEQ ID NO:5689

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06757

SEQUENCE DESCRIPTION:

```
GATCTTNTCT ATACCATTTA ATGTAGAAAA ACTAATTTTC TATAATTNTN TCTATTAAAG 60
GTGACATTAA TGCTGATAGA AAAATATTCC CACATATATC TNACTTGGA AACTTATAAA 120
AATTGTGCTG TCTTTAAAAT AAA 143
```

SEQ ID NO:5690

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06758

SEQUENCE DESCRIPTION:

GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTTAGGAGTA 60  
TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120  
TGAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180  
AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGAAAA 219

SEQ ID NO:5691

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06759

SEQUENCE DESCRIPTION:

GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60  
GAAAGGTGTG TTATTTTCAA AATTGCATTT TAGTTTGCAC ACATGTAAAT NATTATCCTA 120  
TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAC TAGCAATTCC 180  
TAGTCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240  
CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292

SEQ ID NO:5692

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06760

SEQUENCE DESCRIPTION:

GATCCTCTCG CTTGTTCACT GGGGCATGTA CAGTGGGCAC GGGGAAGCTGG AATTCGTATG 60  
ACGGAGCTTA TCTGAACTAC ACTTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120  
CAGGAGCACT TTATCTGAAG ACAAACTCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180  
TGCAAACAGA ATCTTGGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240  
AAATGTGTTA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300  
ACCAGGGTTA TTTGCATCCA AGGGAGCTTN 330

SEQ ID NO:5693

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06762

SEQUENCE DESCRIPTION:

GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAACAAAAAN GGGGGTTGTA 60  
TGTATNAATG TGCTACCCAA ACCTNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120  
TTTTGNCAC TTNAAATAAT GNN 143

SEQ ID NO:5694

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06763

SEQUENCE DESCRIPTION:

GATCTTAATG CTTCTCCTGC TCTGTAAGCC TCTNAAGAGC AATATCTAAT TAATTATTAC 60  
 TGTAATTTTT TAAAAGGCTT TAAAGTGCCT CAGGGGTCCC CTGAACTAA TTTCTATTT 120  
 CTGGGATTCC CTGGATTCAT TATATGNNAT GGTGACATGA TTAGAGGAAT TCNTTTTAAG 180  
 TATGAAANTT GTCCCTTTCC TNCTTCAGTA CTTGCCTCCT NGCTGGCATT GANTTAACAC 240  
 AGGGACAAAA TTTGGTTAAT TNNTNATTNC NAN 273

SEQ ID NO:5695

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06764

SEQUENCE DESCRIPTION:

GATCTGTACT ACAGGAACCA AATGTCATGC GTCATACATG TGGGTATAAA GTACATAAAA 60  
 TATATCTAAC TATTCATAAT GTGGGGTGGG TAATACTGTC TGTGAAATAA TGTAAGANGC 120  
 TTTTCACCTA AAAAAAATGC ATTACTTTCA CTTANCACTA GACACCAGGT CGAAAAATTT 180  
 CAAGGTTATA GTACTTATTT CAGCANTTCT TAGAGATGCT AGCTAGTGTT GAAGCTAAAA 240  
 NTAGCTTTAT TTATGCTGGG NTGGTGATTT NTTTATGNCA AAATTTTNT AGNGCGAANC 300  
 ATGTGGTGGN TAGCTTGGNN ATGAANGAAT TNTGN CN 337

SEQ ID NO:5696

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06765

SEQUENCE DESCRIPTION:

GATCTAGAAG TTGCAACATT CGTTTGATAG GAATTCCAGA AAAGNAGAGT TATGAGAATA 60  
 GGGCAGAGGA CATAATTAAG GAAATAATTG ATGAAANCTT TGCAGAACTA AAGAAAGGTT 120  
 CAAGTCNCGA GATTGTCAGT GCTTGTCGAG TACCTAGTAA AATNGNATGA AAAGAGGCTG 180  
 GCTCCTAGGC ACATCTTGGT GAAATTTTGG AATTCCTAGT GATAAAGGGG AAATNATAAG 240  
 GGCTNCTAGN GGGNGANGGG AATTNCNTGC CAGGGANCAG GNTCAGTTGN 290

SEQ ID NO:5697

LENGTH:393

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06766

SEQUENCE DESCRIPTION:

GATCATTCTT GTATTAACT TTCATATGCC AAAAGGGTTT GTCCCGTTT ATCTGCCATC 60  
 AGTGTGTTGAC CTGTTTAGGG CAGAGGCAAT AAGTCAGAAG TCTTGAAGTT GAAATAGTTA 120  
 TATGTGTGTC ATTGGACTGG ATTATAAACA GCTGTCTTGG ACTTTCCCTC TCTTAACACT 180  
 GACTGGTNAT CAGTATCATT AGTGAAAAAG NAAGCAAATT GTTTGTNATC ATCTCTTTAG 240

NCAGGTAAGC TGAATGGGT GGGGCTTAA ATAATANAAN CATGCCATN GTTGGCTTGT 300  
GTATGGGCCT NCTCTGGGA TTCCTNGTNG TNATGGGCTT GGTATTTTGG GTNCNTGATT 360  
TTGTCCANNG GCANTNCCAG GTGGGTGCCA NCN 393

SEQ ID NO:5698

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06767

SEQUENCE DESCRIPTION:

GATCCANGNT AAGAGGCNCC CCCCCGACCA GCAGAGGCTC ATCTTTGCAG GCAAGCAGCT 60  
GGAAGATGGC CGCACTCTTT CTGACTACAA CATCCAGAAA GAGTCGACCC TCAACCTGGT 120  
CCTGCGCCTA NGGGTTGCTG TAAATCTTCA ATCAATGCAA TNNCNATGCC CATNAN 176

SEQ ID NO:5699

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06768

SEQUENCE DESCRIPTION:

GATCTACTCA GACAGGACCT TCGCACCTTT GCCAGAGTTT GAGCAGGAAG AGGATGATGG 60  
TGAGGTAACT GAGGACTCTG ATGAAGACTT TATACAGCCC CGNAGAAAAC GCCTAAAGTC 120  
AGATGAGAGA CCAGTACATA TAAAGTAAAA TNACATGGAT TTAAATCAAT TGTTTAAA 178

SEQ ID NO:5700

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06769

SEQUENCE DESCRIPTION:

GATCGTTTCT TTAGAAAAGT GGCATTGGCT TTTGAATATG AAATCTTCTC ATAGCTGCCT 60  
AAAAAAGACT AGAATGTATA TGGATATCAG AAACCTTTAA TAATACATAA TTTATGCAAA 120  
GATAAGATAA AGCAACATAA CACTAATTAT AAAACTATTT TTAAATCCCC ATTTTAAATG 180  
ATAANTATAC ATTTNTATTT AATTCCTTT GANTAAAACA NTTGTAAAGT AAA 233

SEQ ID NO:5701

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06770

SEQUENCE DESCRIPTION:

GATCTTCATC TGAATGAC ATAAAAACAA CTTTATACCC AGAAAGTTAT TGATAAGTTC 60  
ATACATTGTA CGAAGAGTAT TTTTGACAGA NTATGTTTCA AACTTTGGAA CAAGATGGTT 120  
CTAGCATGGC ATATTTTTCAT CATATCTAGT ATGAAATTAT ATAAGTNTTC TAAATTTTAT 180  
ATCTNGTAGC TTTATCAAAG GGTGNNANTT ATTTNNTTCA TACATATTTT NGTAGCACTG 240

ACAGATTTCC ATCCTNGTCA CTACCTTCAT GCATAGGTTT NGCAGTATAG TGGCGCCACT 300  
GTTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360  
TGTTCCAGNG GAAN 374

SEQ ID NO:5702

LENGTH:452

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06771

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60  
GCAGCATTTT TTTCTAACAC CTAAAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120  
ATGGATAAAC AAAGTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180  
NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240  
ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300  
AGGTAGGTTN GTGGTTGCCT AGGGCCCGGG GGGGAAGGGT TAGGGGGCCT NGGGGGTGNC 360  
AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTN GGGGGTGGT ACCCTGCTAA 420  
ATTGNCCTNN TTGGCNTGGT TTNNCCCGG GN 452

SEQ ID NO:5703

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06772

SEQUENCE DESCRIPTION:

GATCTGTCTG TGCACATGCC TCTGTAGAGA GCAGCATTCC CAGGGACCTT GGAAACAGTT 60  
GACACTGTAA GGTGCTTGCT CCCCAGACA CATCCTAAAA GGTGTGTAA TGGTGAAAAC 120  
GTCTTCCTTC TTTATTGCCC CTTCTATTT ATGTGAACAA CTGTTGTCT TTTTGTAT 180  
CTTTTTTAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAAATAA ATTATGCAAT 240  
TTTTTTTCA AAGTAAA 257

SEQ ID NO:5704

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06773

SEQUENCE DESCRIPTION:

GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTTAATAA 60  
AAATTCTAAG CTGGAAA 77

SEQ ID NO:5705

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06774

## SEQUENCE DESCRIPTION:

GATCCAATTT CTTTGTGGTA CCTGCAGTTT ACAAATAAT TTGACTTCAG TGAGCATATT 60  
 GGTATCTGGA TGTTCOAATT TAGAACTAAA CCATATTTNT TACAAAAAGA TATTAATCCC 120  
 TCTACTCCCA GGTTCCTTTT ATATGTTAAG ATATAATGGC TTTGAGGGGG GAAAAAATAA 180  
 ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTC AGTAAATTAA 240  
 ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278

SEQ ID NO:5706

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06775

## SEQUENCE DESCRIPTION:

GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60  
 CTTCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTTAGTT GTACACTTTT 120  
 AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180  
 GATTAACTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240  
 ATCCAGGNCA AGNCTAAGTA TGTTGGTTAA TAGGNATCCT TTTTTTTTTT TTNAANGCCT 300  
 AANNNGGN 308

SEQ ID NO:5707

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06776

## SEQUENCE DESCRIPTION:

GATCGTAACC CCTGTTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60  
 NCTNAAAAG CGGACGAAGA TTTNACTTA AGTGGGACTT TGTN 104

SEQ ID NO:5708

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06777

## SEQUENCE DESCRIPTION:

GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCCNTTAT 60  
 CACTAATCAC ACAACAATTT TAAGAAGTAG GCTATAAAC AAAAAAAGGT TGCTGTTTC 120  
 TATTTTAAA TAAACNN 137

SEQ ID NO:5709

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06778

## SEQUENCE DESCRIPTION:



GATCTCATT GCTGGAATGA TTGATTAAAG AGTAAAATTA GCCACTGCGT NTGINTNGTG 60  
 TATAGTAACC GGTTTTNTTG CACTTGTCTG TGGCTGAAAC ACTTACCTGC AGTGGAAAGC 120  
 CGTGCAAGGA GGAGGTAAAC ATTGGAGATG TTTGTNAAAA TATTACTCTT GCTGTGAGGT 180  
 TTTAGTTTGT TTTGAATGAG AAAAGACTAA GTAACCTAAT CCATCTCAAT GTAGTGT TTT 240  
 AATANNNGG GNNCTAATA TTTGANATGG GTCTCAGACA TGTCTACAAA TATGGGTACT 300  
 ATTTNNTGC CCGTGTATT TCACATTNA NAN 333

SEQ ID NO:5710

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06780

SEQUENCE DESCRIPTION:

GATCCTTATA AATNAGAAAC ATGCAAGCTT CAGCTGCTCG AGTCTATAG TGTCACCTAA 60  
 ATCGTATGTG TATGATACAT AAGGTTATGT ATTAATTGTA GCCCGGTGNN CNTCGNGGGN 120  
 ACCTTN 126

SEQ ID NO:5711

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06781

SEQUENCE DESCRIPTION:

GATCCGGCAA ACAACCACC GCTGGTAGCG CGTTTGTNTT TGTTCGAAG CTCAGCTGC 60  
 TCGANTTCTA TANNGCCACC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATTAATT 120  
 GTAGNCGTTN GCN 133

SEQ ID NO:5712

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06783

SEQUENCE DESCRIPTION:

GATCCTTTTA AATNAAAAAT AAAGTTTAA AAAAAACAT GCAAGCTTCA GCTGCTCGAG 60  
 TTCTATAGTG TCACCTAAAT CGTATGTGTA TGATACATAA GGTTATGTAT NCNNNN 116

SEQ ID NO:5713

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06784

SEQUENCE DESCRIPTION:

GATCTTCTCA ATGGGTGGNC TCCTGGTATT CGTGGGACCA CCTGTGGGCA CAGGAGCCAA 60  
 TGTGGTTCAG ACAGCTGGGC AGAGGGAGCT GCTAGTCAGC TGTTTGCCCA CACTCTGCCT 120  
 GTCATGGTGA TTGNACCCT ACCCCCTGG TCCCAGNGNC CTGGGGCTCA CTTGATACCG 180

TTGAAAGTAA GCACAGNCTG CATGTNCTCA GGNAGGNCCT GGGGCTCAGG GCACTCGAAG 240  
NCATCAATGN TGGGNACANT GTTNTTGN 268

SEQ ID NO:5714

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06785

SEQUENCE DESCRIPTION:

GATCTCAGAA TACAAATTTA AATAAATTAA TTAAATTCTC AAAACACCCT TGATTGGAAC 60  
TTACAGCTGG CCCTCTGTAT TCGTGGGTTT AACCAATCAC TAATTAATAA TATTGGAAC 120  
AANNNNNNN 129

SEQ ID NO:5715

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06786

SEQUENCE DESCRIPTION:

GATCCTGCAT TTATGGTGTA GTTCTGAGTC CTGAGACTTT TCTGCGTGAT GGCTATGCCT 60  
TGCACACAGG TGTTGGTGAT GGGGCTGTTG AGATGCCTGT TGAAGGTACA TCGTTTGCAA 120  
ATGTCAGTTT CCTCTCCTGT CCGTGTGTTG TTAGTACTTT TATAATGAAA AGAAACAAGA 180  
TTGTTTGGA TTGGAAGTAA AGATTAATAA CAAA 214

SEQ ID NO:5716

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06787

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAAGGAA GTGATAACAC TGGAGTGTA ACAAGAGGAG CAGGAAGCAA 60  
GGCCAGCCCT GGTCTCCAT CCCCATGTGT TTCAGGTGGA ACAGGAGGAA CTGGNCCAGG 120  
CCAGGCCTCA TCCTCCTGGA CCCAGCAGGG GCAGAAGGAG GAAGGGACTG GTCCAGGCAT 180  
GGGTCCCTTC CCNNTGCTCC ATGGGCANCT CTGCTGTATT GATATCACTA GTAAAGTCTG 240  
TCTGCACTGC AAA 253

SEQ ID NO:5717

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06788

SEQUENCE DESCRIPTION:

GATCATGTCT TTCAGAATCC ATGTACATAT AGGCTGTNCT AGCCACAGTG GTAGATTTAT 60  
GATTCACATC CGAAAGTGTG CCTTAGTTAT CAATTTAACA TTTCTCTAGT ATTCATATCC 120  
CTTCCTTAC CATATACCTC AGTGTATCCT TCCTGTGTCA AGCCTTATAA ATCATGTAAT 180

TTAGTGCCAC TCATGTAAAT CAGTAAATC ACAAAGGTCT ATTTAATGAA AACGATTTAC 240  
 CAATGTTGTT TTTTTTTAAC AGGANAAGNA NTAGNAGCAC NTTGTCATTT TTNAGANGGN 300  
 GGNNTTGTG GGNNTGGGG GGGNNGNTTG GN 332

SEQ ID NO:5718

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06789

SEQUENCE DESCRIPTION:

GATCATGCCA CTGCACTCCA GCCTGGGCAA CCAGGTGAGA CCCTGCCTCA AAAATAATAC 60  
 AATAAAAAGT AAAAGCAGCC CTGGGGAAAT GGAGACAGTG GACAAAGCAG GCTGGGGCAC 120  
 CAGGTGTGCA TGTGGGTGTG AGTCTGTCAT GAGAGCTGTC CTGANTGCCC TTAACGCCAC 180  
 TGAACGTAT GCTGGAAAAC AGTGACAACA GTGGATTTTG TTATATAGAC AATTANANN 240  
 GTATANCACC CAGANANNT GTGTGNNTGT TGGGNGTGG TGNN 284

SEQ ID NO:5719

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06790

SEQUENCE DESCRIPTION:

GATCTTTAAC TCCTCCTGGC TGCACCTGGG TAGGGATGGT GGCATCGATG CCCCTCTGTC 60  
 TGCTGAAGGA CCTGTTGCTG CTTCTGTCTT TTCACCCCTC CTGGGCTGAT GACCCAGAGC 120  
 CCTCTGATGA TGGCATTCTC CTGGCAAGAG AAAAAGACTT AACTAGACTT CTGAACCTGA 180  
 ACAGTTTCAG GTTATATTTT AATTTTNNNT TTTTGTAC NGGTNCNGAT NCTAATACAT 240  
 TNCACNNGC AAA 253

SEQ ID NO:5720

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06791

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCCC ACAAAGTGCT AGGATTACAG GTGTGAGCCA CCATGCCCGG 60  
 CCCAGAATAC TTTTAAAG AAGAGCAGGT TAGAGGAAAG AAAAAATTG ATGCTGAATG 120  
 TGGTGATGAA AGCATGTTTC TAAATGGGA AGCAGATGCT TAANGAGGAA AGACTAATCT 180  
 GGGATTTTGC CCCATTCTC TGGNTTTC CTCCTATATT TNATTCTCAC AATCGTGTCG 240  
 TCACATAGTG CANAANACAN ATTTCTGTGA AAGTCCCAG GGGTTATGC TTGGGTGAAA 300  
 GTTTAGCCT GAGTATTTT CTTNCTCTAA AAANAGGTGG GGANTGNGNC ATTTGAGGNT 360  
 NTTNACCTTT TAATTGTNCT GCTATNGN 389

SEQ ID NO:5721

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06792

SEQUENCE DESCRIPTION:

GATCTGGTTG GGGTTTTGGG TTTTGTGTTG TTGTTGTTTA TTTGTTATTT TAAAGGTAAA 60  
 TTGCACTTTT AAAAAATAA TTGGTTGACT TAATATATTN NCTTTTTTNC TCACCTGCAC 120  
 TTAGAGGAAA TTTGAACAAG TTGGAAAAAA ACANNNTNG TTTCAATTCT ANG 174

SEQ ID NO:5722

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06794

SEQUENCE DESCRIPTION:

GATCCTATGT TGCTGGAAC TGCCAAACAG GATGTTGTGC TCAATNACCC CATGTGAGTG 60  
 CGTGGACTCC TGGGAGCTCC TGCTCCNTAC AGTGGGCTGC AACTCCTGTA CTTGAAGCTG 120  
 AGACCTCATA TGACGTGGCC TTCGTGTTGT CAGAGAGTGT CTGGAAGCTG CTGTTGCCAT 180  
 CTTGAACAAC TCACCAACCT CCAACCCAGA GCCCCAGTGA GAGAGGAGCA TTTGGCCTCC 240  
 TGCTTCTTC TGTGGCCTCT GCCGGGCTCC ATTNCCAAGG AAAAGAGAGG AGCTTGGGCT 300  
 CACAGAAAGA GAAGGGGATG AAACCCCAAG NGGCCCTATC TTTTGGGATT TACATGGGAT 360  
 TTTTATN 367

SEQ ID NO:5723

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06795

SEQUENCE DESCRIPTION:

GATCTGAGT AATCCTTTTA GAGCCCGAAG AGTCAAAACC CTCAATGTTC CCTCCTGCTC 60  
 TCCTGCCCCA TGTAACAAA TTTCAGGCTA AGGATGCCCC AGACCCAGGG CTCTAACCTT 120  
 GTATGCGGGC AGGCCAGGG AGCAGGCAGC AGTGTCTTC CCCTCAGAGT GACTTGGGGA 180  
 GGGAGAAATA GGAGGAGACG TCCAGCTCTG TCCTCTCTNN NNNCTCCTNC CTTCACTGTC 240  
 CTGAGGAACA GGACTTTCTC CACATTGTTT TGTNTTGCAA CATTTTGCAT TAAAAGGAAA 300  
 ATCCACTGAA A 311

SEQ ID NO:5724

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06796

SEQUENCE DESCRIPTION:

GATCCTCCGG CCTCAGTGG TCTACAGGCG GGTAATCAAG GGAAGGGAC TACAGGCGCG 60  
 CCCTGCCGCG CCGGGACAAG TTTTGTATTT TTAGTAGAGA CAGACTCTCC CTGTGTTGCC 120  
 CAGGCTGGTC TCCAACCTCT GGGCCTCCCA AAGTGTGGG ATTACAGGCG TGAGTCACCC 180  
 CTGAGGCCA CAGCTTTGCT TTTTAAAGC ATTTCTGCAT AACTAAAAAG ACAGGAAATT 240  
 ACGAGCATAC GGNAAGTGAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300

GGTTCTTTTG CAATGAAAAA GTAATANATT NGGGTNTCAT CN

342

SEQ ID NO:5725

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06797

SEQUENCE DESCRIPTION:

GATCCGCCGA CCTCGGCCTC CCAAAGTGCT GGAATTACAG GCGTGAGCAC GTGCGCCTGG 60  
CCAAGAATGG ACATTTTITA AAAAAACATC AGTACTTCCT ACCACTGCTG CATGAGTATA 120  
ATGCTCCGGA ATTATCAGAA AGCATAATGC AGAAATACGA ATTAGTGGAA CTTAATCATG 180  
TGCCATATAA GCTTACCTAA CAAACAGTTA TATCCCTATT CCTCAACTGA ATGTCTTTTA 240  
ATAAATNAGA NTTTATCATT TNNNGTANGG GTGNGTGTGN GGNTGGNNGG GGGGGGGGNG 300  
GGGNNGGGGN GN 312

SEQ ID NO:5726

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06798

SEQUENCE DESCRIPTION:

GATCCTAGGC TCCCTCCATC CCTGGTATGT GGTCTTCATT TTCATATAGA CCAAGAGCTA 60  
GAGCTCCAGT TACCATTCTT TAAAGTATAT TTAATGCCA AATAGTGAAT AAAGGTGGCC 120  
AGAAAATTCA AA 132

SEQ ID NO:5727

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06800

SEQUENCE DESCRIPTION:

GATCANCTAA GGTCAGNAGT TNGAGACCAG CCTGACCAAC ATNGTGAAAC CCTGTCTTTA 60  
CTAAAAATAC AAAAATTAC CAGGCACCTA TAATNCCAGC TACTTCAAAG GCTGAAGCAG 120  
GAGAATCACT TGANN 135

SEQ ID NO:5728

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06801

SEQUENCE DESCRIPTION:

GATCAGTGGG CCTCCAAGGA GGGNCTGTAA AATGGAGGCC ATTGTGTGAG CCTATCAGAG 60  
TTGCTGCAAA CCTGACCCCT GCTCAGTAAA GCACTTGCAA CCGTCTGTNA TGCTGTGACA 120  
CATGGCCCT CCCCTGCCA GGAGCTTTGG ACCTAATCCA AGCNNCTCTT TGCCCAGAAA 180  
GAAGATGGGG GAGGAGGCAG TAATAAAAAG ATTGANGTAT TTTGCTGGAA TANGTTCNGA 240

TTCNTCTGAA CTCAAACCTGA GGAATTTTAC CTGTNANCCT GNGTCGTACA GANAGCTGCC 300  
TGGTNTATCC AAAANGCTTT TTNTTCCTCC TGTN 334

SEQ ID NO:5729

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06802

SEQUENCE DESCRIPTION:

GATCCTGTAA GCAGACTTGG GCAGTCTCCT TTAGAAATAG GTTGTCTGTA CATGTTCTAN 60  
GGTNTTGTAG ACACGTGTGA CTGTNTANGT GTATTGATGT GAATANTATT AAATATCCTA 120  
ATTATNTAAT TCATTGTATT GTTCTGNGA AGTTGGGN 158

SEQ ID NO:5730

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06803

SEQUENCE DESCRIPTION:

GATCCATANA AGAGCTCCTA AAGAAGAACC CACATGAAAA ACTATCAGAA TCATGTTTAA 60  
GCTAAACCCA TATNCAAAGA CCAANCNACG NACCACCATT CTTCGN 106

SEQ ID NO:5731

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06804

SEQUENCE DESCRIPTION:

GATCCTGGTG TGTGTATTAT ATAAAGAGAC CCCTCCCCTT ATTTTGTGTT TTCCATCCCT 60  
CTCCCTTAAC AGGATTGAAA TAAACATGC TTCTGTTTTT GTAAA 105

SEQ ID NO:5732

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06805

SEQUENCE DESCRIPTION:

GATCANCAAA ATCCAATTTT ACATGTGGCA CTAGGAAAAT GGAATGCTAT AAAATTAATC 60  
CCCATCACCC AAGTAGGGAT GCTGGTGCTT TTATACTGAG TCTTTACTGC CAATAAGTGA 120  
TGCTGGCTGC AAAGGANCAG CTCTACAGAA AGTTTTTGGG TTAGTGTTTC CCTAGCTTAT 180  
TNCTGCANTG GGGAAAGCCA GTTTCATACC AAAAANGANA ATGNAGGTGN TTATANTGGN 240  
NNN 243

SEQ ID NO:5733

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06806

SEQUENCE DESCRIPTION:

GATCTCGGTC ACGTGTCCTG GCGCTGAGG GGAAAGGAAG CGGGCATGAT TG TAGACAAT 60  
GAGGGGGTTC TCTGTATGTA ATGAAATGCA ATTTTATGGT TTGGTGCAAA AACTCCTATT 120  
TTCCAGTAAA TTAACCTTAT TTCTAAAGCA TATTTTGATT TGCCATCAAG AGCAATAAAG 180  
CATTAAATCT TAAA 194

SEQ ID NO:5734

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06807

SEQUENCE DESCRIPTION:

GATCTGGGCC CTGAAGTATA TAAGTAGGAA TTTGCAAGAT GGATGAGGTA GAAAANNGTA 60  
TTTCATATTG TGGAATAAAC AGAGGGAAGA GCCATTGTC TTATCCCCAA CTCCAGAACT 120  
CTACTACTCA TGGAGTCTGA CACAAACAAT GTTAATAATC TGTTTNAGTT CTCATNATAG 180  
GGCACTGGAN TTGGCTGTAA ANTNCAAANC ACNTNN 216

SEQ ID NO:5735

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06808

SEQUENCE DESCRIPTION:

GATCTTCTAG TTNCTGTGTT GTTTAGACTC AAAGAATCAC AAATNTGTCA GTAACATGTA 60  
GTTGTTTAGT TATAATTAG AGTGACAGA ATGGTAAAN TNCCAATCAG TCAAAAGAGG 120  
TCAATGANTT ANN 133

SEQ ID NO:5736

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06809

SEQUENCE DESCRIPTION:

GATCTTAGCA CCCAACTCTG CTGCCCTTNC TGCTGGGCAG TGCTNTCCT AAGAGGGGAC 60  
TCCCTAAAGG CCAGAGAGAG GGTGCTCATC TCCAGGACCT AGGCCACCTG TCAGCACAAA 120  
CAGAACTTAT TCCAGACATA AACATGAGTC TTCTTATTC AAACACTGGA GCAACTGNTC 180  
AAATATCACT CTCCTACTTA CAGGNCTCAN CATACTNGTC ACAGCCCTTT ACTCCCNCTA 240  
CATATTNCC ACANCACANT GGGGCTCANT NNCCN 275

SEQ ID NO:5737

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06810

SEQUENCE DESCRIPTION:

GATCATGCTA GTNACTTCCT GCCCCAGGC ACCGTGCCAA ANACTGGATG CCCCTACTC 60  
CTCAGGGGAC TGCCAGGGC GCCCAGTGGT AGTGAGGGAG AGTGTCTCTG TTCTTTTGCT 120  
CAGCCTGCTG GGCCCTTTGT GTTTGAGGAT GCTTAATGAT TCCAGCCTCT CACTGTGCCT 180  
TATGCATTAA AATTNCTTG TTACGAGCAA A 211

SEQ ID NO:5738

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06811

SEQUENCE DESCRIPTION:

GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TTCTCCAAAA ACCTAAGAAC 60  
CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TGTCCCCACC CAAATCTCAT 120  
CTNCACCTGN NNN 133

SEQ ID NO:5739

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06812

SEQUENCE DESCRIPTION:

GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CTGACTCTTA GGACTAGCAG 60  
TCAGAACAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TAAGAACAGA TTTTACTTAC 120  
ATCCATATAG TTAATTAAAG TCCAGTTTTT TGTTAAACNN NNTTCTNNN 169

SEQ ID NO:5740

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06813

SEQUENCE DESCRIPTION:

GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TCAGTCTTTC TGAAGCCCTG 60  
AAATGGTAAT TGTAGCATTT CAGAAAATNT CTTTCATTTC AATCAATAAA AAGCTTTTGT 120  
AAATAAA 127.

SEQ ID NO:5741

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06815

SEQUENCE DESCRIPTION:

GATCTTCAG ATTAGGCTAA ATGTAATGAA AACCTCTTAG GATTATCTGT GGAGCATCAG 60



TTTGGGAAGA ATTATTGAAT TATCTTGCAA GAAAAAAGT ATGTCTCACT TTTTGTTAAT 120  
 GTTGCTGCCT CATTGACCTG GGNAAAATGN AACAANACAN TAAGGCAANT GGTAGGAAA 179

SEQ ID NO:5742

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06816

SEQUENCE DESCRIPTION:

GATCAGCCCT NCCCTTCAGC ATCCTCAGNT CCTGNAGCAG AGCCTGGAAG ACACCCTAAT 60  
 GTGGCAGCTG TCTCAAACCT CCAAAGCCC TGAGTTTCAA GTATCCTTGN TAACACGGNC 120  
 ATGACCATT NCCCGTGGG CCATGGCAAT TTNACACAA GCCTGAAAAG ATGTTGTNTC 180  
 TTNTGTTTTT TTCTTN 196

SEQ ID NO:5743

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06817

SEQUENCE DESCRIPTION:

GATCCGCACT CTAACAGGG TGAGAAAGCA CAAGAGGGGC CAGCTCGGCT GAGGCCTGAG 60  
 GAGAAATAAT GAGAAGTTTT GTTTCGTTCT TGGGCTGGGG CATCTCAGGA ACAGTGAGGG 120  
 CAACAAGCTG TCCCTCAGGG ACCCTCACCT GCCCTCCCAT GTGACCAGGC CTTCCCAGG 180  
 TGGGGACTGG GGCTGCTTT ATTAAGTGAG CTCTGGGCT TTTGAAGTAG GACAGAGGGC 240  
 CCTGGTTTGG CAGAGAGGAG GCAAGGGAGG GCTTTAGAAC ATCTGAGAAA TGTTAATAAA 300  
 ATANTCAGA AANTAGGAAA AAAATN 326

SEQ ID NO:5744

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06818

SEQUENCE DESCRIPTION:

GATCTCGAAC CCTGTCTAGA AGGAATNTAT TTGTTGCTAA ATGTTCACTT TTTATAGTNA 60  
 TGTCTGTAT TCTAAACAGT AAAGGGGNTT TATTNCTATC ACAA 105

SEQ ID NO:5745

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06819

SEQUENCE DESCRIPTION:

GATCTCAGAA GTTTTAAAA ATAGCAAAGA AGACTGNATT TGGAANCAAT GGTCTACAAT 60  
 TGGNTGTAA ATNCTGAAGC TATGAAGAAT AAATATTTC ACTTTGGATT ATGAAACCCC 120  
 ATTTATGATT TTTAAATAC ACTTGAAATA AAAATGATTA AACTAAA 167

SEQ ID NO:5746

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06820

SEQUENCE DESCRIPTION:

GATCTNTAGA ATTNTTATTG TAATTTTCCT ACTTCTTTGA TAAAAGAAAA ATAAGTCAGA 60  
TTGTTAACTC CAAGATTGAA AAAAAAACT CTTGAAAGAN GATTATNAGT TGTAACNAAT 120  
TTGGGGGGTC TGGGCACAGA CATCTAACCT GGTATTGTAA GGCAGAGGCT CCCATTGGAN 180  
TGGTAGTGGT CCGGGTCACT GTTTCATGGT GTAAGCTTTG CACNGTGTAT TGAACATTNG 240  
NAGGNTCTGN CTNGAAAN 258

SEQ ID NO:5747

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06821

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTNTCAAGA CTTTAGCTNT TCCTTCCATC CGGTGGCCTA TTCCAGGAAT 60  
TCCTCTTTTG CTTAAATCAG TTGGAGTTTG TNTCTGTTGC TTGTAATCAA GCCTTTATGG 120  
CTGCTGGGCT GAGTGACACA AGCACTTTAA TGGCCTGGAG GGACTTTTAA TCAGTGAAGA 180  
TGCAATCAGA CAAGTGTTTT NGAAAGAGCA CCCTCGNGAA GGGTGGATGA CAGGGCAGGG 240  
CAGGAAGGNC AGGNAGATGG CAGAACGGTG GTGGCTGCAG CCGGGGGTNC AACCAGGANA 300  
CTGGTTGGCA AGCTNGGGGC TAGGGGGTAA GGNNTTTTNA GGGGTNGAAN 350

SEQ ID NO:5748

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06823

SEQUENCE DESCRIPTION:

GATCTTCCAT GTTTGGACGT TTGCAGTCAC ACACAACACC TTAGTTCCTC TAGGGGCTGT 60  
ACAGTATTGT GGCATCAGAT AATGCCACCA AAGGAGACAT ATCACTGCTG CTGGGACTTG 120  
AACAAAGACA TTTATATGGG TTTATTTTCA TTCTGCCAAA GTAAANCANT ACATCAACAN 180  
GAGGAAACTC AGNTTTAACC TGTATTCT ATGANNNTGG GATGATTGCT TTGTTTATGC 240  
ACTTTTTCCT GNCTGTGCAT CCGCCTGTNA GTGTTTTGCC CTNTAGTCCC TCACTAGCCA 300  
TGCTTNTGTG NTGGGTTATC ANGGGNGTNN N 331

SEQ ID NO:5749

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06824

SEQUENCE DESCRIPTION:

GATCGAGGAT ATTTTAAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTGTGA 60  
TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTTAAACA TTTTCAAGGT 120  
ATTTTAAAG GTTTGTATT GAAACANTGT TTATATTNC TGAGCTCCTA AAAATGGTAG 180  
ANTACACATG ANANCTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236

SEQ ID NO:5750

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06825

SEQUENCE DESCRIPTION:

GATCCACCT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGGA TTTGGTGAAA 60

SEQ ID NO:5751

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06826

SEQUENCE DESCRIPTION:

GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGTT TTCCCTGGTG ATAAATCCCC 60  
AAGGCAGCTG GATTGGAGC TGGTGGAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120  
ACTGTCAAA 129

SEQ ID NO:5752

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06827

SEQUENCE DESCRIPTION:

GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTGGAA 60  
ATGTTCACTT TTTAACTTA CAGTTTTTTT AATGAGCAAT TCTACATTTT TAAGAAAAAA 120  
GATACTTCAT TTTTATATAA GGTTACAACT GCTTTATAAA NCTGTATTCA CAATGTCAAA 180

SEQ ID NO:5753

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06828

SEQUENCE DESCRIPTION:

GATCTGGCCT TTTCTTAACA AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60  
TTTTCAAGA ACTTTTCCA AGTNCTTGTT TTATTATTA AGTGTCTACC NNGTAAATN 119

SEQ ID NO:5754

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06829

SEQUENCE DESCRIPTION:

GATCTCCATA AATNACTTAG TCTTCTATGT ATAGCTATCA AGGAAATAAA ACCAATTTTG 60  
CCACAAA 67

SEQ ID NO:5755

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06830

SEQUENCE DESCRIPTION:

GATCAGAACA AAAACACCAC TCTTTAATGG GTCTTTTCT TGGCTAGAAG TCTTTCCTCA 60  
GTTTTTGTG ACTATCATAC GCTGATTGT GGGTNATGGA AGGGGGCTAG AGATAACGTT 120  
TCTCTGTACT TTGGTAAAGN ATGAAGGAGT CAGAGAGGGA ACAGAAAAAG TGAGAGAGTG 180  
GCCTGTGTA ATAATAGCCT GCCTCTAAAA GTTGTGACCA GAAAGTATGA TTCATTGGG 240  
CCCAGNGGGN GTAANNTATG TTTTNCATN TACCTCCCAT AGNACANGGT GTTNGGAGGG 300  
NNGGAGTGAG TGTNNTAGAN GGN 323

SEQ ID NO:5756

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06831

SEQUENCE DESCRIPTION:

GATCAGGTGT CTATAACATT TTTAATTCTC TCTGGAAACA GACTCAGGTT TCTTTGGACC 60  
AAATCCAAAA GAACACATAG CTGTAACACA GCTGTAGTTG ACTAGAATGC TCTGTATACT 120  
TTATATTA AAANTGCTTTG CATTTCTNCC AGTGCAATGA ANTTTCATATG GTGTCCCACC 180  
TTATTTAATG ATGGTACANT TTAATCTT AGTCAACTGC TGTNGAAAGT TTTCTCTATG 240  
ANAGTNANGC TGTTTGAAGA ATTNANGNGN TTNN 274

SEQ ID NO:5757

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06832

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGAGCCCAG 60  
NCTGTATCCA TGTNTTCTGC ATGTTGATTC AACCAGCTAC ACATGGACAT TGTAAGTAGG 120  
CCTATGATGA TTGTGTCTGT TCTGAAGATG TACATACCTT TTCTTCTATC ATTATCCCT 180  
AAACANTAGA GTATAACAAC TATTTACACA GCATTTACAT TGTATTGGGT NTTNTANGTA 240  
ATCTAAAGAT GGTTTAAAGN ATNCAAGAGG GTATGCATAG GNTATATGCG AATACCACCT 300  
CATTTTANAT NGNTGACTTG NGCNTCGANN ATGAGGGGAT NTGN 344

SEQ ID NO:5758

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06833

SEQUENCE DESCRIPTION:

```
GATCATGATA CAATTATTTT ATTAAGTCAT GGTTAATAAC AAATGAATCC AGACTTGTCT 60
AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAGT ATTGCCTATG TTGTTTACA 120
CACCACTGCA TTAAC TAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 180
ATTTTTTTC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCCT ACAGCTTTGT 240
TTTCAACCAG CTA AAAATGT TTTGTATATN ACTCTAACCT GTTGTCTCC ACATTCTGTT 300
GGTNCTGATT GNTGCTGTNT NCTGGTTN 329
```

SEQ ID NO:5759

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06834

SEQUENCE DESCRIPTION:

```
GATCTATCCC TGCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60
GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120
AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNNGTAGCCA 180
AGNTGNTTGT NCTGGGGGCT GNCNTGTGT ATTCACCACC AGGTAAATTA GACCATTNN 239
```

SEQ ID NO:5760

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06835

SEQUENCE DESCRIPTION:

```
GATCAACTTT CTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60
CTCCTCCTGT GATGTCCTGC TCCCAACCAT TTGTACTCTT CATTACAAAA GAAATAAAAA 120
TATTAACGTT CACTATGCTG AAA 143
```

SEQ ID NO:5761

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06836

SEQUENCE DESCRIPTION:

```
GATCGCATCC CACAATGCCA GAATAATAAA ATAAAATTGG ATATTTGAGA AA 52
```

SEQ ID NO:5762

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06837

## SEQUENCE DESCRIPTION:

GATCCTCCCG TNCAGCCTC CTGAGTAGCT GGGATTACAG GCGCACACCA CCAATGCCCA 60  
 GCTAGTTTTT GTNTTTTNA TAGAGACGGG GTCTCGCCAT GTCATTACAG TTGGTCTTGA 120  
 ACTCCTGGGC TCAAGCAGTC TGCCTGCCTT GGNTTCCCAG TGCTGGGATT ACAGGCGTGA 180  
 GCACCGTGCC CGGCTAAAAA GTATTTTNA GTTCTGCATA TNGCTTATTT CACTTAACAC 240  
 TATATTAGAG NTTGTTTTAT ANCANTACAT ATAGATATGC TTATCCTTGN TTGACAGTNG 300  
 CATAATTNTT CCANTAAAAA TTGGTTGTAT CNAGGGGCAN TTAACCCAGT TACTTAGNN 359

SEQ ID NO:5763

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06838

## SEQUENCE DESCRIPTION:

GATCATNAAG GACATTCGCA ATCTGGAGGA CATCAGGAAG ACCTTACCAT CTGGCTGCTT 60  
 CAACACCCCG TCCATTGAAA AGCCCTAGTC TCTTTAGGGC TGGAAGGCAG CATCCCTCTG 120  
 ACAGGGGGGC AGTTGTGAGG CCACAGAGTG CCTTGACACA AAGATTACAT TTTTCAGACC 180  
 CCCACTCCTC TGCTGCTGTC CATCACTGTC CTTTTTNAAC CAGGAAAAGT CACAGAGTTT 240  
 AAAGAGANGC AAATTAANCA TCCTGANTCG GGNACANAGG GTTTTATCTA ANANNNGGTN 300  
 GNNNGTGN 308

SEQ ID NO:5764

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06839

## SEQUENCE DESCRIPTION:

GATCATAAAT ATTAATAATN AAAACTGAGA AACTATTAC AATGCATTCC TTATAAATAA 60  
 ATGCTACATT TAGTAATCA TTTCACCCAA A 91

SEQ ID NO:5765

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06840

## SEQUENCE DESCRIPTION:

GATCAGCACA AGTAACAGAA AATNAGCCTG ACGGTGGCTT AAGCAATGGG AATGTTTATC 60  
 TCACATAGCA AAAAGTCTGT AAATAGATGG TTCTAGAGTT GGGTGGAAGC CAAAATGTCA 120  
 TCAGGATTTT CTTGGAACCG TCTGCTTTC CATCCTCAGT ATTGCAGAAT GGCTGCTCCT 180  
 GCGCCAAGCA TCATTCTGCA AATNATGGTG TCCACAGCCA GAGTGGACAG TAGTACAGGN 240  
 GCCTTCTCAT TCTGCCCTTA TCCGGGANTA ACCGTCAGCN GCTCCAGCAA CCTNCCCCCT 300  
 GTCTNTTAT AGNGTGGGNN 320

SEQ ID-NO:5766

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06841

SEQUENCE DESCRIPTION:

GATCCCACTC TGATTGCATC CATTCTCTG AAAGACTTGT TTGTNCTGCT TCTCTTCATA 60  
TAACTGAGCT GGCCTTATCC TTGGCATCCC CCTAAACAAA CAAGAGGTGA CCACCTTATT 120  
GTGAGGTTCC ATCCAGCCAA GTTTATGTGG CCTATTGTCT CAGGACTCTC ATCACTCAGA 180  
AGNCTGCCTC TGATTTACCC TACAGCTTCA GGCCCACTG CCCCCCAGTC TTTGGGTGGT 240  
GCTGTTCTTT TCTGGTGGAT TTAATGCTGA CTCCTGGTA CAAACAGCTG TTGANGCTCA 300  
GAGCTGGAGG TGAGCTTCNN 320

SEQ ID NO:5767

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06842

SEQUENCE DESCRIPTION:

GATCCAGTGA CAATNTGCC CCGCCAGCC TGNGTGTCT CACTCATCAT TCATTCATCC 60  
ATNCTAGAGC CAGGTCTCTG CNTCCAGAC GCGGCGGGNG CAATGCTCCT N 111

SEQ ID NO:5768

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06843

SEQUENCE DESCRIPTION:

GATCATTCTC TCTGAGGGCA GNTGNGGCGC AGGNAATAG TCTTGNAAT GTTAAATATG 60  
ATGGGTAAAT TAAAAGTTTT ACAACATTCT ACCTAATATT TTNCTTTTAA CATACTTTTT 120  
CTGTTCTATT GTATTATGGT GTCCGAAAGC TAAATAACGN CTAGGNAAAA TTTTTTTAAA 180  
AAAAGNAAAA TCAGTTTAAAT GTGGGNAGTA CTTAAGTGGT ATTATATTN NCATTTTCAC 240  
GTATAGTGCA TANAGN 256

SEQ ID NO:5769

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06844

SEQUENCE DESCRIPTION:

GATCGTGTTC ACAGAGGACT TCTTTAAAGT GTCACATTTT TAAATGTAA ACATATTTTT 60  
AATGCATACT TAAGTAATAT TTAAGAACT AAACAAAATA ATGATACANT TGCAGTGTG 120  
TGCTTGTGT CAATGACAAA AATAAAACCA TTTGGTGGT AAA 163

SEQ ID NO:5770

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06845

SEQUENCE DESCRIPTION:

GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60  
TGAAACCAGT GTTCCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120  
TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTG GGCCTAATA ATCCTAAAN 180  
GAATGGAGCT GCATTGATGA ATTGGCTCAG TATTTAANGG GAGCAAACCT NTNGATAATA 240  
NNTCTTTTNA GGN 253

SEQ ID NO:5771

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06846

SEQUENCE DESCRIPTION:

GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60  
TATGAGAACT TTAGTGATAA TATACCTTTA TCATAGAAAT GAGATATCCA ATACCTNATG 120  
GNGACTACAA AAAGGNN 137

SEQ ID NO:5772

LENGTH:371

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06848

SEQUENCE DESCRIPTION:

GATCCCAGAG TTCAGCCAGC CTGGGGTCCA GAACTCAAGA GTCCGCCTGC TTGGAGCTGG 60  
ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120  
ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGAATATGCT 180  
CCATCCCAAG GGCCAAGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240  
AGGCCCTCTA GGTGGGGGAA GNAAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300  
CTTGGGNCCC TNCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360  
CTCTNAATTG N 371

SEQ ID NO:5773

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06850

SEQUENCE DESCRIPTION:

GATCGCACAC TACGCTCCAG CCTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60  
AACAAAAAAC CAAAAAACT ATATTTTAA TCATGTTGG TAGCTTGAAA ANTAAATNCT 120  
TTCTGCCTAA A 131

SEQ ID NO:5774



LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06851

SEQUENCE DESCRIPTION:

GATCTGGAAA ANCTGCTGAC AGAGTGGCCA GACACAATAC CACTGTCTTT GGCTCTGGGG 60  
NCAGTTGGCA TGCCAGGCCT GACTGCCTAC TTTGGCCTAC TTNAATCTG TGGTGTNAAG 120  
GGTGGAGAAA CAGTGATGGT TAATGCAGCA GCTGGAGCTG TGGGCTCAGT CGTGGGGCAG 180  
ATTGCAAAGC TCAAGGNCCTG CAAAGTTNTT GGNGCAGTAG GGTCTNNTGN AAAGGNTGCC 240  
TACCTTNAAG AGGN 254

SEQ ID NO:5775

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06852

SEQUENCE DESCRIPTION:

GATCCTGGTG CTATGGTTTG AATGTCCCCA CAAAACTCA TGTGAAATT GAATTGCCAT 60  
TGTTTAACAG TATAAGGGGT GACTGGGCCA TGTGAGCTCT GCTCTCATGA ATGGATTAAT 120  
GCCATTGTCA TGGAGTAGGT TAGTTTTCTC TGGCGTGGGC TCCTGGCAAA AGGATGAGTT 180  
CTGCTGCCAT GCTGTCTGTN TCATGCACTT GCTCACCATG TGAGCCTTCT GCNTCACACA 240  
GGATGACCCT CACCAGATAC TTGCACCATG CTCTNGGGAC TTTCCCAAGT NTCCAGAGCN 300  
GTGAGCCAAA TNACTNGCT NTNCTTTATA AAANANAAAN ANAGTN 346

SEQ ID NO:5776

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06854

SEQUENCE DESCRIPTION:

GATCCAGGGT GNCTAAAGAA TAGAAGTAGA GTTCCACCCA GGGCCAGAGG GAACAATCTG 60  
GGATTCAGAC ACAGCAGTGG TGCCAACGTG AATCTACCTC GTNCTAGAGT CTGAGTAGCC 120  
TAGTCTATCA CCCAACACAG ATAAGACTGG ACAGGGGCTC CCAGGAACCA ACATCTAAGN 180  
GGGGAGTTTG GAGAGGGGCT AAAAGAAAGC AGGTTAAGCC CCAANTGTAA CTGATTGATG 240  
ACCAGGGATA ACTATTTACT AGTGCTTTTN TGGNTTATT GTAACCTCTGT NACTTTCCCA 300  
GTATTTGTNA ATNTTNNNC TTCTGNNTCT CCTGTN 336

SEQ ID NO:5777

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06855

SEQUENCE DESCRIPTION:

GATCTATTTA GGTGGAAATA GTTGTGGATG TACTAAGAGT AATGAAATAA AATTATAGCT 60  
TCAAA 65

SEQ ID NO:5778

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06856

SEQUENCE DESCRIPTION:

GATCTTNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 60  
GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 120  
GGNNNNN 127

SEQ ID NO:5779

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06857

SEQUENCE DESCRIPTION:

GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 60  
CTTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAACTAAG CTTCCAAA 118

SEQ ID NO:5780

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06858

SEQUENCE DESCRIPTION:

GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCATTG 60  
CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120  
GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180  
GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240  
TATTGTGTGG TTAAANTTN 259

SEQ ID NO:5781

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06859

SEQUENCE DESCRIPTION:

GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCCAT TGAATCAGAA TTATATTGAT 60  
TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120  
CATCTTGAAC CACAGATTTT TCNTATGTGT CATCAAACA TCTAGTNNNG N 171

SEQ ID NO:5782

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06863

SEQUENCE DESCRIPTION:

GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTACATCT NTTGGTCAGT GTCTTCATTG 60  
TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNTCTCA CCCN 114

SEQ ID NO:5783

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06864

SEQUENCE DESCRIPTION:

GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAAA 55

SEQ ID NO:5784

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06865

SEQUENCE DESCRIPTION:

GATCCTGGAG AGCTCCCAGA CTTTGCTCAG CGTTCTCANG AGGNAAGCTG GGAACCTGAC 60  
CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120  
GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180  
TTTGTTCCTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240  
GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298

SEQ ID NO:5785

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06866

SEQUENCE DESCRIPTION:

GATCAATTGA TTGTTTAAAC ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAAGTAGT 60  
TTTAAAAGAN GAGAATCCAA CCATTAAAC ATCAAAANNT GANATTNTTT GTAAATN 117

SEQ ID NO:5786

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06869

SEQUENCE DESCRIPTION:

GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60  
TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120  
CATTGCTATA TGTGTCTGTC CTAATGCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180  
ATTCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240

GCAGCTTCTN GTGCTGCACA TATTCCTAG CATCTATGAT GTTTTGGAG GGGTAATCAT 300  
TATGATTAGT GTTTTNTCC TTGCTGGCTA TAACTTTAC TGGAGGAATT TAAGAAGN 358

SEQ ID NO:5787

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06870

SEQUENCE DESCRIPTION:

GATCTATGGG TAATTTTAAA TTTGCCTGT CAAGCTTAAN AGGGACTGA CAACAGCTAG 60  
GATNGAAATN ATTTCAACAC TTAAATATGC TTACTTTGTG CCGGACGCTG TTCTAAGNCT 120  
TTNACAAN 128

SEQ ID NO:5788

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06871

SEQUENCE DESCRIPTION:

GATCCACCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC AGTGCCCGGC 60  
CTGTATTTGG TGATATTTTA AAAAATTCTA CTTTGACCTT AAGTGCTTCA AGAATTGTGT 120  
TCAGTTAGTA GTCCTNTTGG TAAGACTAAC TTTCATATGC TATCTTTGCT CCATGAGCTA 180  
TCATAGTGCT GTTTTCTTTC ATTACCCGTA AGAGTGGCTC TATCACAGCA TTTACTGTTA 240  
AGGGCTACAG TTAGACCTCT TGTAACTCT ACTTTNATTT GTGATGGCTG TGTTTCACAC 300  
TACCTTGATT TATAAATGTA NGTAATGTNG TAAATNGN 339

SEQ ID NO:5789

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06872

SEQUENCE DESCRIPTION:

GATCCTNTGT ATAACATCGG GGCCTTGCTC AGGGGCTGTT GCGTGGTTGC CCTGCATTCT 60  
CTCCGNCGCA CCGCCTTCCG TATCAAAACC TAAATAGAAG TTGTTGTTAC CGTGTGCCAA 120  
TGTGTCCCAT GTGGTTGTG CCAGGTAGAG AAACAGGAAG TCAATCATCT GTNACAGTCT 180  
CTATTCTGTC GTTTTGCTCC TTGGTATTN ATTTGCACTA TATTNAGGTG AAGCCTGTTC 240  
ACTGTTTAAA NCCGGAGTNT TCTTCAAANG GCATGGNGAC CTGGTTCCAG TAAATGTCCC 300  
ANCAGTGGGG GTTTTAGAAN GCATNNTTCA NTGACCNTNG NAN 343

SEQ ID NO:5790

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06873

SEQUENCE DESCRIPTION:

GATCATTATG TAGTTTCTGG ATTAAAAAAA TTTGTGTGTG AAGTTGCTTT GTAAAGTGCA 60  
 TGTGGAATTA ATGGGACAGT GTGCCCTTTG TGTTAGATGT TAGAGCAAAA GAAAGGGCTT 120  
 ATAGTGTTAG TATTGGAGCA CTTGAAGAT AGATATTNC AGAAAAGATG TAGGATTAA 180  
 NAGTTAAATT TTAANTTTTA GAANANGATA TGATGGCAAT TGGNAATAGT CACAATGNNG 240  
 TTCTTCATCC AGTNGGTGTT TAACCAGTGT TNATTTTGCC NCTGGTAATG TGGTNACCTG 300  
 TGNGTGNTTT CCANTAGATG NGTTATGGGN 330

SEQ ID NO:5791

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06874

SEQUENCE DESCRIPTION:

GATCACCACA AAGTCTGGCT CAGTGACTAT GGCTTTGCAA AACTAAACA TTCCTGTCTC 60  
 AAGTCCTGTA GATGGCTTGA AATAGTATAC ATAAGCATGC CTTATAACA TCTTCAGTCT 120  
 TTATCAACTC TTTGGAGATT CAGCCATTCT TTTTGTACT TTAGGGAATT AAATCANNNN 180  
 ATAATGTATA AATCTGAGCA TGGCCGATGG CAGAAGANAT TTTGTCATAC GTTTTAAAG 240  
 ANNTAAGANT GTATTATGTT TAAA 265

SEQ ID NO:5792

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06875

SEQUENCE DESCRIPTION:

GATCAGAAAC CCTCATTTAA TATAGATTAT TTTGGAAATN AAAAAATTG TAACAAGGTG 60  
 GCTTTCTTAC CCACCCTAAA ATGTAAATAA AACATGCAAG CTTAGCTGC TCGAGTTCTA 120  
 TAGTGTACCC TAAATCGTAT GTGTATGATA CATAAGGTTA TGTATGCCCT GTAGCCGTTN 180  
 NNNNTNTNT N 191

SEQ ID NO:5793

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06876

SEQUENCE DESCRIPTION:

GATCTTGTCT TTATCTACTT TCTTCAGTAA ACTCTGGAAG AAAAAACTT CCTGGAAGTT 60  
 TGGGCAATCA TTTGCCATTA TTNCCTTTC CTTGAATTC TTGATATCAT GAATACTGCT 120  
 GTAGTATGGG ACATTATGTA TTTNGGTAAG CAGACTTCTC TNCTGTATTT GTNTTNGTT 180  
 AAACAGAATG ACAAGTTCCT TAAA 204

SEQ ID NO:5794

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06878

SEQUENCE DESCRIPTION:

GATCCACCC CAGGCCTTGC CCCTGCCCTC CCACGAATGG TTAATATATA TGTAGATATA 60  
TATTTNAGCA GTGACATTCC CAGAGAGCCC CAGAGCTCTC AAGCTCCTTN NTGTCAGGNT 120  
GGGGGGTTCA GCCTGTCCTG TCACCTCTNA GGTGCCTGCT GGCATNCTCT CCCNCATGCT 180  
TACTAATACA TNCCTTCCC CATAGCCATC AAAACTGGAC CAACTGGNCN NTTCTN 237

SEQ ID NO:5795

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06879

SEQUENCE DESCRIPTION:

GATCAAAAAGC CAAGCTCTGT CCCCCTCAGC ACGTCACCCT CCCTCACTGT AATCCCTGAC 60  
TGTTTTCTCT AAATGAAGAA TTATTTAGAG AATATAANTT AGAAGGGCCG CCACGTCAGA 120  
TTTGCTGAN TGGGAGCAGT CTTTCAGCC TCGAAAAATG TTTAANCAAT ATGCAGATGA 180  
CCTAGCACAA ATAANGANTG CTAGCAACCG CAAA 214

SEQ ID NO:5796

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06880

SEQUENCE DESCRIPTION:

GATCAAGTGA TACTAGGAAT ATAGGTACAA GTAAGACTGT CATTNCAAT GTTTCTCTT 60  
TGGACTGATT CTTTNCATTA TAACAGCGTT GTGAAGTAGA GGTGGGATTA GGAACCTCT 120  
GCTGTAATCA ACTCCCTNGC TGCCCAAACA CCAGCCTNAT ACACAACACC ANCAGGTCCN 180  
GCNTNGN 187

SEQ ID NO:5797

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06882

SEQUENCE DESCRIPTION:

GATCTTTNAG TGCTTTGGGG ATGGGGTGGG CTGGGGTGGA TGGATGGGCA ACAGTGACTT 60  
TAATTACCCT TGCTGCTCTG CATTNCCAG TTTATNCTTT TGTTCCTTT ATCTGACTGA 120  
CTCTGTCAAA CAAGTGTCAA AGTTGTGTGT TAAAAAATGT TTAACAAAA ANNTGTTGTA 180  
ATGACACAAA GCCTTATGAN ANTNTTATG GAGTTCAATA AAAGANGTAA GAGGTCAANC 240  
CNNAGGN 247

SEQ ID NO:5798

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06883

SEQUENCE DESCRIPTION:

GATCTTCCCA ATATGAACAA ATATACTATG TATATNGTGT GTATTCTAG AAATCAATGG 60  
CAGCTGCTGA TGGNGTTGTA ATTAGAANTC TATATAGNNT ATAGAN 106

SEQ ID NO:5799

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06884

SEQUENCE DESCRIPTION:

GATCAGGACC TACGTAAAGG TGGATTTTNA ATTATTTAAA ATTCTGATTT TGTITTATTT 60  
TTAATTAATC TTTGGGGGAA GGATGGGAGG GGGGTGAGGG TTGAAGAAGT AAACATTGTA 120  
CCTATTGGAT ACAATGTTTA ATATTGTGT GATGGGCACA CTGGAAGCCC AAACCTCACT 180  
ATTACACAGT ACATTCATGT AACAAGCCTG CAAA 214

SEQ ID NO:5800

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06885

SEQUENCE DESCRIPTION:

GATCCTTAAT GGTGGCCAGA GCTACCATGC AGTGCAAAAA TAAATTAAGT GAAAATGTAT 60  
TATTGAGATT AACAGTGCAA GGCCAATACA TTTTATAAAT CTGTCAGTAT CTTTTTAAA 119

SEQ ID NO:5801

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06886

SEQUENCE DESCRIPTION:

GATCCTCAGT GAAGTGCATT CGGAATGAGG ATGGAAGTTG GTTAACACCA AATGAATTTG 60  
AAGTCGAAGG AAAAGGAAGG AACGCAAAGA ACTGGAAACG GAATATACGT TGTGAAGGAA 120  
CGACCCTAGG AGAGCTGCTN AAGAGTGGAC TTTTGCTCTG TCCTCCAAGA NTAANTCTCA 180  
AGAGAGAGTT AAATAGCAAG TGAATTTCTA CTACCCTCTC AGTCACCATG TTGCAGACTT 240  
TCCCTGTCTG GAGGCTCACC TTAGAGCTTC TGAAGTTTCC AAGCTCTGAG GTCAACCTNC 300  
ACATTTTGGG CAATGGCATC TTCAAAAACA ATTAATTTN 339

SEQ ID NO:5802

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06888

SEQUENCE DESCRIPTION:

GATCTCCAAG CGAACTCAGC CTCCTCCCAA GCTCCCTGTG GGTCCCTAGCC ACAAGCTCTC 60

CAACAATTAC TATTGCACTC GCGATGGCCG NCGGGAATCT GTGCCCCCTT GCATCATCAT 120  
 GTCGTCGCAG AAGGCGCTGG TGTCAGGCAA GCCAGCAGAG AGCTCTGCTG TAGCTGCCAC 180  
 TGAGAAGAAG GCGGTGACTC CAGCTCCTNC CATAAAGAGG TGGGAGCTGT CCTCGGACCA 240  
 GCCTTACCTG TGACATTNCA CCNTNACGNC CACCCGNCTA CTTTTGCCTN CTTTGGATTT 300  
 NCTTCAGGGN GAATNTTGAC CTAATTGTAT GACAATTAC GTAGGGGCTC AGGTATTAC 360  
 TTCTGAGGTN TTACTTTTGG N 381

SEQ ID NO:5803

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06889

SEQUENCE DESCRIPTION:

GATCTACACA TGTTGCCTTG CATTTGTGGT AATCTACACC AATGGAAACA TGTACTACAG 60  
 CTATATTGA TTATGTATGG ATATATTGA AATAGTATAC ATTGTCTTGA TGTTTTTCCT 120  
 GTAATGTAAA TAAACTATTT ATATCAGAAA 150

SEQ ID NO:5804

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06890

SEQUENCE DESCRIPTION:

GATCCTAAGC AAAATCGGAG ACTTGAACAA AGTTTGTTC TGGCTGTNTG CCCTTCATT 60  
 TTCTGTTCTC TTCTTTCTCC CTGGAGATGA NAGAACACAG AATCANATTN CCAACCTCTC 120  
 TCTCCNATGN ACTCTCTCAT CCCCCAGCCC AGCCACATTT ACACATAGGG CAGACACATC 180  
 TCACACAAAG GAAGTACCCC TAAAGACCTC ACATAAATAA AACTAGCAA ANTTCAAGTT 240  
 GNNTCTTGGC AAANGTAGTN NTGGGTATGT NAGTCN 276

SEQ ID NO:5805

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06891

SEQUENCE DESCRIPTION:

GATCANGTTC NGGGCTCTNT CAGCCGCCAC CTCTGGGAAA GAGAAAAGNT TTGGGTCCAC 60  
 TGAACATCAT GTTTGTAGAC GCTGACAGGT GGGGTCCTAA TNAGAGCCAA CACATGCTCA 120  
 CTGCCAGCNC CTGCCCTGAG TACTGGGAAG TTTCTCCTGG AAGCCCTTGT GAGATGGCTC 180  
 NGNNGGCTGG TATCCCGACT TGGAAGATGA GGAAACTNN 219

SEQ ID NO:5806

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06893



## SEQUENCE DESCRIPTION:

GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCTTTATCA CTCTGCATTG 60  
 GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTTGTNTGC TTTTAAATC AGCTTTATTC 120  
 TAAGCAAATC TGTGTCTACT TTAAAAAAT GGAATGGAA AAAAAATTAA ATCTNNGCCA 180  
 GGTCTTCAA A 191

SEQ ID NO:5807

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06894

## SEQUENCE DESCRIPTION:

GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 60  
 CGTGTACCG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 120  
 GCACCTTCCC CTGCNTTGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCC 180  
 GAAAAGAACA CCTNTTCGA ACCAAA 206

SEQ ID NO:5808

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06895

## SEQUENCE DESCRIPTION:

GATCTAAATA TGTATTCAT AATNTTCCCA TAATAAATTA TATAAGGTGG CTAAA 55

SEQ ID NO:5809

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06896

## SEQUENCE DESCRIPTION:

GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTGCT TGAGGGGGNG GNATANTATG 60  
 TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTTGTTATT TTGGAAAAA TGAGGGGAGG 120  
 GAGTTTTGCA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTCCAG 180  
 TGGATTNAAT GGGNCCN 197

SEQ ID NO:5810

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06897

## SEQUENCE DESCRIPTION:

GATCCAATGA TTAAATTTT GGGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 60  
 GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAA 120  
 TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCATTCT ATGTTTAGCT ATTGGGGGGT 180

CTCATACTTC TGGACTTGCT TAGACCTATG CTATCTAATA TGGTNGCCTC TGCCCATCCA 240  
TATGTGGCCA CTTGGGAACT TGGAAATGTN ACTAGTTTGT AATTAAGGTG TGCTNGTAAC 300  
TAAATNCAC CCTGNGGTNT CAAAGGCTNN AATAANGNA NGGN 344

SEQ ID NO:5811

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06898

SEQUENCE DESCRIPTION:

GATCTATCTC CCTGTTAGGT GTNCTTTTTC TCCTCTTTAG AAAGNAGCCA AGGNAACCAG 60  
GGTTCTCTCA AAGTGAAAA TACTGGAAC NATGTACTGN TATCATAATG N 111

SEQ ID NO:5812

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06899

SEQUENCE DESCRIPTION:

GATCCATTGC TTTAGACAG GACTGGGTTT TGCTGTCCAA TGATATACAN TAATAGTNCT 60  
TCTTACAGCT AAGCTGGCCC CAGCCTTGTC TTGATATTAA TACATGAANT NTTTATAATT 120  
GTCTCATTGT CTCATTTAGA AACATCCANA TNTTCTGCT GTGNCTATN 169

SEQ ID NO:5813

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06900

SEQUENCE DESCRIPTION:

GATCAGTAAC TTTATCTCTA TCCTTAATGA ACATTTGTTT TATTGGTGGC TGGAATATT 60  
TCTATTGTAT TTCTGTGTAT ATNNTNAATA AAATAATTTT TGGCCTCTNA AA 112

SEQ ID NO:5814

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06901

SEQUENCE DESCRIPTION:

GATCAGCAGC TCGGAAGACT CAGATGCCGA AAACCTCGTCC TCCCAGAGGC TGGATGACAG 60  
CAGCAGTGAG TCCAGTGACC TCCANCTGGA AGGCCCCCANC ACCCTCAGGG TCCTTTGACG 120  
AGAACCTTGC TGACCCCCAA GCAGNAGACA GACCTCTGGT TTNNTTTGAC CTCAAGATNG 180  
ACAAATGAAAG TGGGTTCTCC TGGGGCTACC NNNACCCNTT TCTAATTTAG TCTCTNGAGT 240  
CCCAAAAAGA AGTNCAGGCA GAGCCATCTN N 271

SEQ ID NO:5815

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06902

SEQUENCE DESCRIPTION:

```
GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60
AGTNAAAATA TGTGCCTTTT TGGTGTGTTT TGTTTCATCAC TACAAGATAA AAAGGAAACA 120
TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAAATC ATATGTATAG CCTAGCATAC 180
GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTCTCG NAAGCATNCA CCGGGNGCTC 240
TGCTCAGNTA GAGTCAGNCT CCNNGCTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300
CGTTNNATGG NGGGNCN 317
```

SEQ ID NO:5816

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06903

SEQUENCE DESCRIPTION:

```
GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTCCGATTAC 60
TGAAGAAAGG TCTTTNTGAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGTCCCCTC 120
CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180
TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240
GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294
```

SEQ ID NO:5817

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06904

SEQUENCE DESCRIPTION:

```
GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60
CTCTCAGGGT TTTGGAACTG CTGCCCCAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120
ANTCACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180
ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240
CTTTCAAAAA NTNGNGNTGN NNN 263
```

SEQ ID NO:5818

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06906

SEQUENCE DESCRIPTION:

```
GATCTTTCCC NTTTGGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60
GAAGTGTGTG TGCGTGTGAA CGGCTTTGGG TCCTGCTGGT TTNCTGTGA GCTNCAGTGT 120
TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGGA CATTTAATA 180
```

AATTTTNA CAGTTCAAA

199

SEQ ID NO:5819

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06909

SEQUENCE DESCRIPTION:

GATCANAAAA CCTAAANTCC ATAGGNACCC NAAATCCTCA CAGTTACAGA GACACCAAGA 60  
AGANTCTGGA CAAATAGGAC TTGCTAAGGC CTCCACAGTT TATN 104

SEQ ID NO:5820

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06910

SEQUENCE DESCRIPTION:

GATCGAACGG ACTNTAAATC CGCTCTTTAT CGAAAGCTAA GCAAGCTGTG GCTTTTTTCC 60  
AACTCCGTGT AACGATTCTA AGTGTAGTGT NGTAGGACCC CGACGGGTNT GGCAGCAACT 120  
GCCCTGGAGC CCCAGCCCT GCTTCCATCT NTNCTGTGCG CCCACAGTA GACGTGCAGA 180  
CGTCCCTAAG AAGGTTCTTN AAGATGTTTA TTTTATATAG TCCTNTTTA CTGGAAGACG 240  
TACGNATACT CCATCGATGT TGTATTGGN GGGGGGTGNG GAATCTTGT ACGCAGTTT 300  
CNTTNGCTT TACGAAGCCG GTNAANNGAC CGTTTGAAN TAN 343

SEQ ID NO:5821

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06911

SEQUENCE DESCRIPTION:

GATCACTTGA GCCCAGGAGT TCAAGACCAG CCTGGGCAAC ATGGCTAATN AACACTAAGC 60  
ATAGTTTAA TGTCTTNNAT ATTAAAGACT TTCTCAAATT CTAAA 106

SEQ ID NO:5822

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06912

SEQUENCE DESCRIPTION:

GATCCATTCC AGCCACTCGG GGCTGACAGC GGCGACCCGT TCCAAAGTAA AAAGGGGTTT 60  
GGGGACCCGT TTAGTGAAAA AGACCCATTT GTCCCTCCT CTGCAGCTAA ACCTTCTAAG 120  
GCCTCTGCCT CGGGCTTTGC AGACTTCACC TCTGTAAGTT GAGTCCTCG NCTCCGGGCC 180  
ACCCCACTCC CTTCCGCTTG CAGTTCCCT GGGATTTTNG TNTCCTTTA AAGGCAAACC 240  
TCCCAGCTTC TTTAGCCTCT TGGTACCTNA CACTCTCTGT CCNTCGCGTT ATTNATTCTA 300  
CACTGCCACT TCTGTAAGAA AAACAGTTTN TCAATAAAAA AAANAGNTGN 350

SEQ ID NO:5823

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06913

SEQUENCE DESCRIPTION:

GATCTCGTCT CTAAATAAAA TATACAAAAG AGTATTGGGA GGGGGTATGA AGAATGTATA 60  
GGGCAATAAT TGAAATCTGT TGAAGCTGGG TACACAAAAG TNCATTATGT TGTTTCTCTA 120  
CATTATATC TATTNTNAGT NNTTTNATAT CTATTTTNAN TTN 163

SEQ ID NO:5824

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06915

SEQUENCE DESCRIPTION:

GATCAGTGGT TTCCATTGTC AGGACTGGGC ATGGGGAAAGT NTGGCTGTAC AAGAGGAGCC 60  
CAAGGGAACCT CTTGGTGGT GATGGAACCTG CTCTGTATCT CAAATGTCTG TATCTTTAGA 120  
AAGAANTCTA CATATGTNAT AACACTGCAT AGAAATATAT ACATGTACAC ACAAGTGAAA 180

SEQ ID NO:5825

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06916

SEQUENCE DESCRIPTION:

GATCAGTGAA ATCCTAGGGT GCTCTATGAG ATTGTACTAG GCCTATNAAG AGTGGTAAGC 60  
CAAATAGGTC TCCATGGGAG ATACATTATG TAAATAAATA AACAATGGTT TGCTGGTTCC 120  
TGTTGGTGTG TCCACAAGTA GGTAANCATG TTAAAGGAA CCCGGGTTCT TAGATTTTNT 180  
NAGACTTTTT AANCTCAAGG CTGNGCATAA GTNCTTGAAN ATAAANTGCT AATNCTTAAG 240  
TGTCAAA 247

SEQ ID NO:5826

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06917

SEQUENCE DESCRIPTION:

GATCAAGAAT TGCAAAAATG GAAAAAATTA ATGAAAAGGC ATCTGATAAA TGTGGACGGC 60  
TCCAAATCAT GTCCTTAGAA AATCTTTCTA TTGAAAAGGA GACTAAATTG TAATGTGATT 120  
CACAATGTAA CAATATAANN CTNNGTTTTT NTATAATTNT NTAANAGTN 169

SEQ ID NO:5827

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06919

SEQUENCE DESCRIPTION:

```
GATCACCTCC GGGCACAGGA TCGAGGAAC TGTTGACATT CAGGGATGTG ACCATAGAAT 60
TCTNTCTGGA GGAGTGGGAG TTTCTNAACC CTGCTCAGCA GAGTTTGTAT AGGAAAGTNA 120
TGCTAGAGAA CTACAGAAAC CTGGTCTCTN TGGGTCTTAC TGTTTCTAAG CCAGAACTGA 180
TTAGCCGTCT GGAGCAAAGA CAGGAGCCCT GGAATGTGAA GAGACATGAG ACCATAGCCT 240
GGGCGACAGA GCGAGACTCC GTNTCAAA 268
```

SEQ ID NO:5828

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06920

SEQUENCE DESCRIPTION:

```
GATCTGTGCC CAGAGACGGG ACTGGGAGGG CCCACTTCAG GGTTCCTCTC TCCCCTCTAA 60
GGCCGAAGAA GGGTCCTTCC CTCTCCCAA GACTTNGTGT CCTTCCCTC CACTCCTTCC 120
TGCCACCTGC TGCTGCTGCT GCTGCTAATC TTCANGGGCA CTNCTTGCTG NCTTTAAGTC 180
GCTGAGGGAA AAATAAATGA CAAATTGCTT GNGNCAAA 219
```

SEQ ID NO:5829

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06922

SEQUENCE DESCRIPTION:

```
GATCATAAGT NCTTCTATCT GCTGAGCTTT ATTTATTNAT TTTGGACAGA AAGTTTGGTG 60
GGAAGGTTGC AATAAAATCA GAATCTCTCT TGTNTGAATT ATGCAGTTA ACCCTGTCCA 120
TGGNNGGCT GTACTCTATT CTNACTGTAT TTN 153
```

SEQ ID NO:5830

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06923

SEQUENCE DESCRIPTION:

```
GATCTTGTTT TNATTAAATA TGCCAGTTTG TATTNCCTG CCTTGGGATT TTTTGTGTC 60
CGCTGTACAG TATTCTAAGG GAAAAAGAAA AAGAAAGATG TGTAAGTAA CAGAGAGAGG 120
TGGCTATGGT GTAGAGACCT CTTCTAATA AAGAAATGAA AATATGTCTA AA 172
```

SEQ ID NO:5831

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06927

SEQUENCE DESCRIPTION:

GATCCCAGGG AAGACGTCTC TCTCNGCATC CCAAGCCATN CAGCCCTTAT CGCTGTACCC 60  
AGTAAACCCT CAATAAATAT CTTTNTCAGC CAGAAA 96

SEQ ID NO:5832

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06928

SEQUENCE DESCRIPTION:

GATCACTGTA TTAATTTTGG TTTATCTTGG CATATATNGT TCAGTTTGTN TTTATTTTTA 60  
ATTTTNCCTT TTTTCCGAT TAGGCTTTGG TCAGCATTTT NCATTTAAAG AAAAGTAACA 120  
CTCCCATCCA CTCATAAGCT TGGTACAAAA ACTTCTCTGG CAGTTACTTT TGAAGCTTCA 180  
CTCTGCTTTC TGTATAAAGG GCAGTCTGTG GTCACGCAAG ACTTTAAA 228

SEQ ID NO:5833

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06929

SEQUENCE DESCRIPTION:

GATCTTTCTG CTTTCGAAGG TATANTGTAT CTATTTCTGT CAGGAATNAT ATTTCCAAAT 60  
GAAAATGTAA AGAACATTGG GAAATAATAA ACTTTCCTTT CAAAGTAAA 109

SEQ ID NO:5834

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06930

SEQUENCE DESCRIPTION:

GATCTGTGTT TGGAAAGAAA AGAAGGAAAC TAAGACGTGC GAGGGNAAGA AAAAGGAAAA 60  
CCTAATTAAA AAATATGTAT CCTCTATAAT NAGTTATNAC AGCCATTTGT AATGAATTTG 120  
TCGCAAAGAC GTAATAAAAT TAACTGGTAG CACGGNCAAA 160

SEQ ID NO:5835

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06931

SEQUENCE DESCRIPTION:

GATCGACCGG CACCGTGTT GCCTCGTAAG CCATAGCGCA TCGCGCTCT CAGAATAAAC 60  
AGGCCCTGCC TGGGAAA 77

SEQ ID NO:5836

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06932

SEQUENCE DESCRIPTION:

GATCANATAA CAGAATGCAC CAGTCATCAG CTATTCAGTT GGTAAGCTTC CAGGAAAAAG 60  
GACAGGCAGA AAGAGTTTNA NACCTGAATA GCTCCCANAT TTCAGTCTTT TCCTGTTTTT 120  
GTAACTTTG GGTAAAA 137

SEQ ID NO:5837

LENGTH:402

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06933

SEQUENCE DESCRIPTION:

GATCCAGCTT CATTCAACAT TACTACCACT TATTTGATAA TNATAGAACC CAACTAGGCG 60  
CAATTTACAT TGACGCGTCA TGCCTTACGT GGGAAAGGACA ACAGTTCCAG GGGAAAGCTG 120  
CCATTGTGGA GAAGTTGTCT AGCCTTCCGT TCCAGAAAAT TCAGCACAGC ATCACCGCCG 180  
AGGACCATCA GCCCCTCCA GATAGCTGCA TCATCAGCAT GGTGTGGGC CAGCTTANGG 240  
CGGNTGAAGA CCCCATCATG GGNNTNCGCC AGATGTTCTT ATTAAGAAGC ATCAACGATG 300  
NTTGGGTTTG CACCAATGNC ATGGTTCAGG CTCGTCCTGC NCANNTTTGG CTGNCCTNCT 360  
TTGCAGNTTG GGNACTNANG NTGTTTGCTT GCTGCCTTTT GN 402

SEQ ID NO:5838

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06934

SEQUENCE DESCRIPTION:

GATCTTCGTA ACGGCTCGG CACGCTCCAC ACCCTGGAG TCTCCGAGG CCCCCATGTG 60  
CTGCTGAGTG GCCAAGATGA TGCCAGGCTG CCCTATACAC TGGGGGATTC TGCCCTGGCC 120  
CATGCACACC CGTCTTTCCA TGATGGCAGA GACATCCAGT NAGGACCTGA CCCGTCTCTG 180  
TCTGAGGCCG GCTCAGCAGT GCAGCCTGGT CCCTGGGGGC TGGACCCAGG CTCCTAAATA 240  
AACCAGCAAC TNCCTCGNAA A 261

SEQ ID NO:5839

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06935

SEQUENCE DESCRIPTION:

GATCTCGGCT CACTGCAACC TCTGCCTCCC GAGTCCTGGT TCAAATATT CTCCTGCCTC 60  
ANTCTCTGA GTAGCTGGGA CTACAGNNAC GAGCCACCAC ACCCTNCCCC CGNATCCCCT 120  
GCCTCCATCC TAGTAAAGAC TCCTTGCTAT GCTGCAAA 158



SEQ ID NO:5840

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06936

SEQUENCE DESCRIPTION:

GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG 60  
CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 120  
AAATAAA 127

SEQ ID NO:5841

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06937

SEQUENCE DESCRIPTION:

GATCAAAGAA AATTTATCTC TTTTATAAA CTTAAGGACA GTTGCAAAAG GCTTCAAGGA 60  
ATTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 120  
CCANCTACTT CTGGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNTTN 180  
TTGTATAACC TACTATNCCA GTNCTCCTGT GTCAGTCTTG CCTATGGATN TN 232

SEQ ID NO:5842

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06938

SEQUENCE DESCRIPTION:

GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC 60  
TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 120  
AGCTTCAATG TGGTTTTTCAT CACCCCCAAC CCCCTGAGCA AGATTTCCTG GGTCAACAGG 180  
TTACATTTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 240  
AGNGGTGTGG AACGNGNAGG TTTNNGGTGA GTNNGGTAC AGAATGTNGN 290

SEQ ID NO:5843

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06939

SEQUENCE DESCRIPTION:

GATCTTGTA CATTCTTCT CCTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT 60  
GTTACCCCCA CCCCTGCCCA CAAGAGAAAA CGCACGTAA CTGTAATTN TCCACTACCT 120  
ACCCAAATCC TATAAACTG CCCCACCCCA TCTCCTTTTG CTGACTCCAG GTGATTAAAN 180  
AACTATTGCT CAGGGAAA 198

SEQ ID NO:5844

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06941

SEQUENCE DESCRIPTION:

GATCTTTTTT CTAACACATA TTTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTTAC 60  
ATTGCTATTT ACTNNTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAACA 120  
TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNGAC AAACATCTAT CTTTCTCATC 180  
TNTATTNAAG TNCCTTTTGT TANTGTAGTA TCAANGTTT TTAGGTGNTG CAAGGTTTAA 240  
CAANTCATT GTGGN 255

SEQ ID NO:5845

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06942

SEQUENCE DESCRIPTION:

GATCCCTCAG AAGACTTAAC TTGGCTGGAG TGGGAGGAAC TGAAAATACC ACTCCATGGT 60  
ATACCATAT ATCCAAATCG TAGAGAACGA GAAGCTATGA TTTTATCATC TTATGCTGGA 120  
ATCTTAATGA ACAGTATCCC GATTGAGGAA GTCTTTAAAA TTTATGGGGC TGATTCTNCT 180  
GNCGATTCTG GTACCATCAA GTTTCCCCGA GTTTCATCTN TCCGNCTCTC CTTNCACCNC 240  
TNTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 300  
AAGNANGGTT GCAGCAGN 318

SEQ ID NO:5846

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06943

SEQUENCE DESCRIPTION:

GATCGGAGGT TGGGTTCTCG ATTAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54

SEQ ID NO:5847

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06945

SEQUENCE DESCRIPTION:

GATCAGAGAN TTACCAACCC TGCTTNGAAG CAGTGTGGT GTATCCAC TAAAATAAAC 60  
CAACTGGTAT AACATCCCT GGAGCTTAAT AAGCACTCAA TAAATATTG TNGANTAAAN 120  
ANAGAAAN 127

SEQ ID NO:5848

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06946

SEQUENCE DESCRIPTION:

GATCTGCAGA TTCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN 60  
CTTGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCCAG 120  
CTCTTATACA NNTTATACAT GTATTTTGT GTATGTTGT GAGAGTTGTA TGTATGTGAA 180  
TGNGTGTGAG TGTGTATTCA CATACACATA TN 212

SEQ ID NO:5849

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06947

SEQUENCE DESCRIPTION:

GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 60  
CTGAGTCCCA AAACCTAAC AGTAATCCTT TNCTAACGTC AGGNTGCGTA TCGACCTGTG 120  
TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 180  
TGTTTGNCCC AAANTNTTNC AANTAANCAT TGN 213

SEQ ID NO:5850

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06948

SEQUENCE DESCRIPTION:

GATCATCTTG AATTACTGTG GGATGTANGT TTCAAAATTT TCAAATAAAG CCTTTGCAAG 60  
ATAAA 65

SEQ ID NO:5851

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06949

SEQUENCE DESCRIPTION:

GATCACATAC TGCAGTCCAG CCTAGGCAAC GGNGCAAGAC GTCATCTCAA GGAAA 55

SEQ ID NO:5852

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06951

SEQUENCE DESCRIPTION:

GATCTCCCA AATCCATTGN TNTCACCAGG CCCTCCAGA ACCTCCTCAG TTCCTTCACA 60  
GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCTCACTT CACCTTCCAT 120  
GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180

NAAGAN

186

SEQ ID NO:5853

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06952

SEQUENCE DESCRIPTION:

GATCAACTGA AAAAAGCATG ACTTTTGAAA TCTCTGAATG CCTTGGTTCT NAGTATTATC 60  
ATNCTTNATT GAATTTATTT CTNATTAAAN TATGTAGTTT TN 102

SEQ ID NO:5854

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06953

SEQUENCE DESCRIPTION:

GATCATGTGG AGTGAAAGGC AAATCTTACT GCTTAATGTA TAAACTCTCA CCACAGGAAG 60  
CATCGCTGTT TCCAATAAAT ATTGCTGAAG ACAGAAA 97

SEQ ID NO:5855

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06954

SEQUENCE DESCRIPTION:

GATCTGTCCA GTTGTGTAT GAAATGGATT TGATAAAGTT TTTGCTAGTT ATTTACTACA 60  
TTTTGGGATT AATAAGTGAT TTANATGCAT ATNTCCTGT AAATCTACAG TTTTTGTAC 120  
AAGATATTCT ACAAGTNATG ANGCTAAGGG AAGAAAATGC CAAAGATACC TCTAGTTATG 180  
TTGANCACAG CCAGCACAGT TTCGACAGGT CAAGGAAGAG CTGTTTCAGT AAAGANTGAN 240  
GTGAAAACNC TTATTTNGGA AANTGTTTCT CANCANTAAN CTGTATAGTT GTTTCTCTNA 300  
NACCCCN 308

SEQ ID NO:5856

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06955

SEQUENCE DESCRIPTION:

GATCCCAAGT GTTAGAAAA CTAAGTAAAC TTTGTTGTCA AGCAATTTGT CCATGTGGAA 60  
AGAATTTAAA GAGAAGCTGA ACAATGGAAT AAACAAATAA AGCATGTTTT TNNATCTTTC 120  
CCATTAAA 128

SEQ ID NO:5857

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06956

SEQUENCE DESCRIPTION:

GATCTTAAAA ACTGCAGTAT TCCCCCATTT TNTAATGAGA GTGTGGGGCT GGCAGGGNTT 60  
GGTTGGAGGG AGGAGAGAAG ACAGAGGAGC ACTTAAGGTG CAAAGCAGCC TATTTTCCT 120  
TCAATAAAAA TTGTTAAGGG AAA 143

SEQ ID NO:5858

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06957

SEQUENCE DESCRIPTION:

GATCCGTGGA AATAGCCTGG CTCCTCTTA CCCAGTAATG AGGGGCAGGG AAGGGAAGT 60  
GGAGGCAGCC GTTTAGTCCT CCCTGCCCTG CCCACTGCCT GGATGGGGCG ATGCCACNN 120  
GTCATCCTTC ACCCAGCTCT GGCCTCTGGG TCCCACCACC NAGCCCCCG TGTNAGAACA 180  
ATCTTTGCTC TGTACAATCG GGCTCTTAC AATAAACCT TCCTGCTTNC ACAA 235

SEQ ID NO:5859

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06959

SEQUENCE DESCRIPTION:

GATCCAGTAC TATCAGAATG ACATCCCCTA CTGAGGAGGG GACCTTCGAG GGCCTCTGCC 60  
CCATGTGCCC TCAAAGCTGT CCCACAATCA TGGAGCCCTG CNACCTNCCT GCCCTGNCGN 120  
CACATGCAGT NGAGGAGAGG CCTGTGGCCA AAGAACCTGG TAGCGGCTCC TNGGGCAGCA 180  
CGTGGNTGGC GCACTTTGGT AACGCCATGG GANTGCAGCG NCCANTCGAA TGGGATNGGT 240  
GCTGTTNTAT GCACAGGN 258

SEQ ID NO:5860

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06960

SEQUENCE DESCRIPTION:

GATCAGATTA CCAGGAACAT AGGAGTGGAT TCCTGCCCCA ACCAAACCGC ATTCGTGTGG 60  
ATTTTTTAT TCAACTTAAT TGGCTATTCC AAAGATTTT TTTCCCTAT TTTTAACGAT 120  
TGGAGCCCTT AAGATGCACG ATGGAATTGT GTTTGCGTT TTTNGNAAA NGGGAGCAA 180  
GCGGGGNCCT GNGATAAAC GNTTGGAGCA ATCTCCTTNG GNAGGGATT CAGCANGGG 240  
TTAGNTNGGT GAAACATTTT AAAGGGGGGA AAGGGGGGG GTTTTTTTT NAAANTGGGN 300  
TAAATNCGN 309

SEQ ID NO:5861

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06961

SEQUENCE DESCRIPTION:

GATCATGTGG ACCAGAGCAA ANNAAAGTTC AGTTTGTGTC ACAATTCATT GCCAGACTTC 60  
ATTGGAATGC TTTGTTTGAT GATGTATGTN CATTCTCAGC TTTATTTTCA GATGCTTAAC 120  
TGGGCAATGA AGTCTAACTT CAGGTTGAAC TNTCTCCNGN NTAANCTCAG GCTAAATGN 179

SEQ ID NO:5862

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06963

SEQUENCE DESCRIPTION:

GATCGTGGTG GTGGGGACTG GAGACCGGAC CGAGAGGCTG CAGTCCCAGG TGCTTCAAGC 60  
CATGAGGCAG CGGGGCATTG CTGTGGAAGT GCAGGACACG CCCAATGCCT GTGCCACCTT 120  
CAACTTCCTG TGTCATGAAG GCCGAGTAAC TGGAGCTGCT CTCATCCCTC CACCAGGAGG 180  
GACTTCACTT ACATCTTTGG GCCAAGCTGC TCAATGAACC GNCAGGAACT GACCTGCTGA 240  
CTGCACTCTG CCAGGCCTCC NAATTGCTTT CANTCTTATC TACCCTTTTG GGAATTATNT 300  
NGGCTTATCA ACATAATAAT TTGATACAAC TNNTTCCCAA A 341

SEQ ID NO:5863

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06964

SEQUENCE DESCRIPTION:

GATCTGGTGA AAATAGGATT ACATTGGAGC CAATTGAATA AATTTATTCT TTCAATCAAA 60

SEQ ID NO:5864

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06965

SEQUENCE DESCRIPTION:

GATCTGGGAG GTGGAAGCCA GGCCAGAGGA CTTGGGGAAA ATAAGATGGA GGAAGGAAAA 60  
AGGGAGAAGC TGAGCCACAG CTTAACTCCT ACAGAGTGAA ATNAAAACGG GCTGAAAATA 120  
CCACCCCAAG AGAGGACCTC GCCCAAGCA AGCCAGTGAG CAGCCCTGCC AGACTACTGC 180  
CAGACTGAGA AACCAGAAG CTGGTAGTCA TGTGGGCTTG CNTTCTNTGC CAAACGACTG 240  
GGAAACCAAA ATNAGCCAC CTTGTGTTCT TCCTAGCTCC ACCCTCCCCG TGCTGCTGTG 300  
TTCTGTCTCT TCCNCACGGT TTCCTTGCTA TAGTTCCCAG CTGCTTGTA CCGGGCCNN 359

SEQ ID NO:5865

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06966

SEQUENCE DESCRIPTION:

GATCATGGCT AACGGGCACA GGCTTTCTTT TTTGGGTGAT GAAAATATTC TAAAATAACT 60  
GTAAAAATAT TGCACAACTC TGTNAACATG TGAAAACCCA CTGAACTGTA TGCTCTAACT 120  
GTATGAATTG TATGGTATTT AAATTNACC TCAATAAAGC TGTTATCAAA 170

SEQ ID NO:5866

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06967

SEQUENCE DESCRIPTION:

GATCAGAGCA AGAGAACTTC CAGAGATAAT GGATAGAATG AAAGAATATA TATCTATATA 60  
TATTTAACAT GTTGTTTAGT AATCCCTATT TTAATTCAAT TCTCCATCTG TAAAATATTA 120  
GCTAACTGAA TTATTTCTGT GTTCTACTCT GGGCTCTCAC ATTAATACTC TGTTCAAAAA 180  
GTTTAAA 187

SEQ ID NO:5867

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06969

SEQUENCE DESCRIPTION:

GATCTTGGAC TTCCAGCCT CCAAACTGT GAGAAATAAA CTCCTGTTGT TTGTAAA 57

SEQ ID NO:5868

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06971

SEQUENCE DESCRIPTION:

GATCATGGTC AGCTCACACC CTAATAAGTC CACATCTTCT CAGTGTTTTA GCTGTTTTTT 60  
TCATTAGGNT TCCTTNTATT CTGTACCTTG CAGCCATGAC CAGTTCTGGC CAGGAGCTGG 120  
AGGAGCAGGC AGTGNGTGGG AGCTCCTNTT AGGTAGANTT TAACATGACT TCTGCCCCAG 180  
CTTNATCTGT CACACANGTN TGTGGCACCN CTAGTGCTAC TGCTAGGATA TCACTTACTC 240  
AGTTAGATTT TTCCNAAAAA NTAAGCTTTT AATTNATTTT TTTGGTGTN 289

SEQ ID NO:5869

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06972

SEQUENCE DESCRIPTION:

GATCTCCTCT TCCACCTCTT CCTGGTTCCT TTGCGGGGAA AATTGCACTA AAACAGAACC 60  
 TTTTCTTAAT CCATGTTGGA AGGAAGCAAC AGTGAACCTCT ACCTGTTCTG GAGTTCCTCT 120  
 GGGTCTGCAG AAGGTTGGGA ATTTAGAAAA TAAGGCTGTT CTTTCATATT TTAATTTAAT 180  
 CTCTGTCAAT GGCCATCCCT CCCACAAAAA AACGTGGGTT AAGAGAACTT GCAGACTGGA 240  
 TATGCAAGCA AACGGGCANC TCTGGAGAAA ANTANGGNAN GGAATGCTGA CTTTCTCTTT 300  
 CTNTCTCTTT GTCCCCACAC CNNTTCCCAN CCCAATTACT GGGGTN 346

SEQ ID NO:5870

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06973

SEQUENCE DESCRIPTION:

GATCCCGACC CTCACCAAGTC CCATTGCGCT CCCTCCAGCT CTGCTTAGGC ATTTTGCCCC 60  
 TCACCCCAAT GTTCCACACC ATCGACAACC AAGGGGTGAG GTGGGGACAG GCCTCAGCAG 120  
 GGAATGGGGC GTATATGTTA GTGTTGCTGC AACAATAAAG CCTGTGTCAT CTCTCATGCC 180  
 AGTGAAA 187

SEQ ID NO:5871

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06975

SEQUENCE DESCRIPTION:

GATCTNGGAC TTCCAGAAAA CAGAACTGTG AAAAGNCAAG TTTCTGTNGT TTAAACCACC 60  
 CAATCTGAAG-TATTTNGTTA TGGCAGTCCT NGGCAGACTA ATACAATATG CAACACATTT 120  
 ACAATANATA TACAN 135

SEQ ID NO:5872

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06977

SEQUENCE DESCRIPTION:

GATCAAATAA TGATGTTAAA TTCTTAAATC ATATTTGCTA TGCAGCTGAA GATGATATTT 60  
 TGATTTGTAT TTTGGGGGTA CCTGTGTTGA GTTGATAAAC ATTTCCATCT TCATTAAAC 120  
 TGCTTCCAAA CTAGTAAA 138

SEQ ID NO:5873

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06978

SEQUENCE DESCRIPTION:

GATCGGCGGG GCACAGTGGC TCGTGCCTGT AATCCCAGCA CTTGGGGAGG CCTAAGCAGG 60



CTGGTCGCTT GANCCCAAGA GTTCGAGACC AGCCTGGGCA ATACAGCGAG ACCCCATCTC 120  
 AATTATATT ATTTAAAAAN TAATTAATGT AAGAGNAATT AAAACAGATT TTAAANNGG 180  
 NNAAANNAN 189

SEQ ID NO:5874

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06979

SEQUENCE DESCRIPTION:

GATCTGACTC TTCATTNTA AGTTCCTGT TACATCATGG TCATTNCTA GTTTTNACC 60  
 AGACTCCCAT CTCACAATAA AATGCATCAA CAAGCAAA 98

SEQ ID NO:5875

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06981

SEQUENCE DESCRIPTION:

GATCTGCCGG CTCGCCCA GCCTGTGTNG AAAGAAGGCC CACGGGCACT AGGGGAGCCG 60  
 AATTCTACAA TCCCGCTGGG GCGNCCGGGG CGGGAGAGAA AGCTGGTGCT GCAGTGGTGG 120  
 CCCTNGGGGG CCATTCGATT CGCCTCAGTT GCTGCTGTAA TAAAAGTCTA CTTTTGCTA 180  
 AA 182

SEQ ID NO:5876

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06982

SEQUENCE DESCRIPTION:

GATCTTGTTC TNCCTCATCT GTAAAAGNAG GTTAACAAAG CTTTCTGCC CACTTCTTGG 60  
 GGAGAAGGGA ATAACATAAT TGGTAAA 87

SEQ ID NO:5877

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06983

SEQUENCE DESCRIPTION:

GATCTTTGGC AGCGCATATG GCCTCTTTGG GGTATCGTC GCAATTNTTC AGACCTCCAG 60  
 AGTGAAGATG GGTGACTAGA TGATATGTGT GGGTNGGGCC GNGCCTCACT TTTATNTATT 120  
 GCTGGTTTTC CTGGGACAGC TGGAGCTGTG TCCTTTAGCC TTTCAGAGGC TTNGTGTCA 180  
 GGGCCCTCCC TGCACTCCCC TCTTGCTGCG TGTGATTG GAGGCACTGC AGTCCAGGNN 240  
 NNGTCCTCAG TGCGGGGAGC AGGCTGCTGC TGCTGACTCT GTGCAGCTGN GCACCTGTTN 300  
 NCNNCANCTG CACCN 315

SEQ ID NO:5878

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06984

SEQUENCE DESCRIPTION:

GATCTNTTTT TTTTGGTAG TTCCTCAGCT ATTCAGGAAG GTGTATTTNT GCCAGTAATT 60  
ATCCCTATGC TAATACTTTT TAAAACATTA CTAGTGAGTG CCCTAAAACA TTACTAGTGA 120  
GTGCCCTTTT NNTTTACAGA AGAAATTGA TTGTTGTGAG CGATAATAAA ATTAACGTGG 180  
ANCTCTTAAA 190

SEQ ID NO:5879

LENGTH:322

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06985

SEQUENCE DESCRIPTION:

GATCTCTATT ATNAGGCTAG ATGTATAGCC TCTACTCCCC CAGCTTCTTG CTCTTGACCC 60  
TGCAGTGTA GTTGCCTTC TATTAGCAGC CAAGGAAAAG GGAAACATGA GCTTATCCAG 120  
AACGGTGGCA GAGTCTCCTT GGCAATCAAC CAACGTTGCT ATGAAATATG CCTCACACTG 180  
TATAGCTCAT TATAGGACGT CAGGTTTNTT GAAAAAAGTG GGCAAGNCAT GATTAATGAA 240  
TCAGAATCCT GTTTCATTGG TGAATTGGT GGGGGCTNTT TGAATTTTAA AAANTNNTNG 300  
TNAGNTGTAG NNNNGGTGNT NN 322

SEQ ID NO:5880

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06986

SEQUENCE DESCRIPTION:

GATCATGGAA TACAAGATAA TTTCTCAGGA ATCAGATGGT CTTATTCCAC ACCTGCAGGA 60  
ATGTCAGCAT TGCAACCACC ATGGCAAATA TTGATTTAAT AANCAATTAC TATTCCCAGA 120  
TAAGTGTCAA ANTCTTAGAN GAAATTGTCA TATCTTAGAC AATTTAGANG TGATGGAGGG 180  
TGGATGATGA GAAATTATCG CACCACTGCA CTCCAGCCTG GGCGACAGAG CAAGACTCTG 240  
TCTCAA 247

SEQ ID NO:5881

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06987

SEQUENCE DESCRIPTION:

GATCCACAGT GTTGGGCACA ACTTTGACGT TTCTTAAAAA AAAAATTAA A

51

SEQ ID NO:5882

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06988

SEQUENCE DESCRIPTION:

GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 60  
ACAGGAATCA GGGTGAAGGC CAAGGACGGC ACTCAAGAAT TGNCTGTCT CTAACAAAAA 120  
AGCATCTGCA ACGAACTTCC TTAAATTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 180  
GCANTACCAT GTATTNCCC CAGAAGTTAA GANATATTGC TGNACGGACC ANTAAAGTA 240  
ATTNCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 276

SEQ ID NO:5883

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06989

SEQUENCE DESCRIPTION:

GATCGCGCCA CTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54

SEQ ID NO:5884

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06990

SEQUENCE DESCRIPTION:

GATCCTTAAT TGCTACCACA TTTCAAACAA GAACTATGAC CAATTAAACT TTAAGTTTGT 60  
TGAACTGCCA AA 72

SEQ ID NO:5885

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06991

SEQUENCE DESCRIPTION:

GATCCNTTGG GAATCCAGTT GAAGTTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60  
TAATTTGGCC ATGTCCAGTT TATACAGTTT ACAAATATA GCAGATGCAA GATTATGGGG 120  
GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTTNGTGTAT GTGTGTATGT GCGTGTGATT 180  
TACCAGAGAA CTAATNAAA NAACCAACTG ATNTTTNAA TCCTANTGTG TAGGTAAAG 240  
TGTCATGCCN TNNACCANTN CTAATGN 267

SEQ ID NO:5886

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06992

SEQUENCE DESCRIPTION:

GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60  
GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120  
GTTTCTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164

SEQ ID NO:5887

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06993

SEQUENCE DESCRIPTION:

GATCCATGCA AATTGTGCGA TCCGACGGGT TAAC TTCTCA GACAGACTCT ACTCAGANGA 60  
TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAAGGCAA AGCAATAACT 120  
GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTAAA AGGAAACTAT 180  
GTGGAGGACG ATGCAAAAAC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240  
TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300  
AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341

SEQ ID NO:5888

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06994

SEQUENCE DESCRIPTION:

GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60  
ACCC TTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120  
GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCACAGCT CAGCTTCAGG 180  
CTTCTTATGT TTCTGAAAAC AGCTTGNTA TTTTAATGCA CGTTGCATTA AACCTCACTG 240  
AANCATAANG GGGAAA 256

SEQ ID NO:5889

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06995

SEQUENCE DESCRIPTION:

GATCTTTGTA GGA CTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60  
ACTGTNGAGC AGAGAAGAGT TGCTTGTAAC CCTTGTGCTT TTATATACTA NTTAAAAANC 120  
TTAAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180  
TATTATTAAG GTGTNATGTG GAAA 204

SEQ ID NO:5890

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06996

SEQUENCE DESCRIPTION:

GATCAGCAAT AAAAANAAC CTACAAAAA NCCTATATTC NTAATTNTT GCTTTTACGG 60  
TGATATAGTG CATGCAAACC AGGAGCATT TGTGTCTTAA GAAAAATAAT CTTAGAACAG 120  
ATGGCTGTGA AAATTACACC CATGCACAGN ACANGCCACA GGAATAATNG GNN 173

SEQ ID NO:5891

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06997

SEQUENCE DESCRIPTION:

GATCAAATAT TGGTTGAATG CCTATGTATG TCAGGCCCTG TGCTGAGCCA TGAGGATTAA 60  
AAAGATGAAT AANCATATCT TGTTTAGGAA ATGGATGTAT AAAAAATCA AGTGCAATAA 120  
AGTGTGTGTC CAAAAGCTGA CACAATGGAA AGGAAA 156

SEQ ID NO:5892

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06998

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCTGGGAGG CAGAATTTGC AATNAGCTGA GATTGCACCN TTGCACTCCN 60  
GCCTGGGTGA CAGAGTGACA CTCTGTTTGA AACAAACAAA 100

SEQ ID NO:5893

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS06999

SEQUENCE DESCRIPTION:

GATCACTTGA GCTCAGGAGT CCTAAACCAG CCTGGGCAAC ATAGTGATAC CTTGTCTCTA 60  
CCAAA 65

SEQ ID NO:5894

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07000

SEQUENCE DESCRIPTION:

GATCTTGAAT AATTCATAAT TCTTCCACAG TAGAAATAAA ATAATTNCTG GCTAGTTATT 60  
TTCTTAAAAA TAAAAAAAAT TTGAAAACCT CAAA 94

SEQ ID NO:5895

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07001

SEQUENCE DESCRIPTION:

GATCCCTCTT TTCCAGAAAA TTCTGTGGAA TTTTCTGTA GGACTTTGTT CTCCACAAGC 60  
TTGAATTAAA GCAGGATTCA GTTTGCAAA 89

SEQ ID NO:5896

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07002

SEQUENCE DESCRIPTION:

GATCAGCTGA AGTGTGTTTT AGACCCAAAC CATCTGGCCC CTCGTTTTG CTCAGAGGAA 60  
GTAAATNTNC ACTTAAATGA AATTGAAAC GCCATGTGGC ACCACAAAAG AGCTCTCTGT 120  
ACTTNCCCCA TGCTGCCTCA AAAGTNCCTGT AAGTTTCGGG GTCAGTGTCC CACCCTTCAC 180  
TTCCCGANNN NNGGGN 196

SEQ ID NO:5897

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07003

SEQUENCE DESCRIPTION:

GATCCAGTT TGCCTTGCCA AATAAACTCT GTTTATGTGA ATTTATTAAA CGCAAA 56

SEQ ID NO:5898

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07004

SEQUENCE DESCRIPTION:

GATCCAGCT TTTTCCCTC TCCCACAAAA CCAGGTAGTG AAGTTATATT ACCAGTTACA 60  
GCAAAATACT TTGTGTTTCA CAAGCAACAA TAAATGTAGA TTCTTTATAC TGAAGCTATT 120  
GACTTGTAGT GTGTTGGTGA AATGCATGCA GGAAAATNCT GTTACCATAA AGANCGGTAA 180  
ACCACATTAC AATCAAGCCA AAAGAATAAA GGTTCGCTT TTNTNTTGT ATTNATTGT 240  
TGTCTTTGTT TCTATCTNNG ANATGCCATT TAAAGGTAGA TTTCTATCAT GTAN 294

SEQ ID NO:5899

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07005

SEQUENCE DESCRIPTION:

2153480

GATCTCCCTA CTCCATTNNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC 60  
TGTGTTAGGA AAATGGGGGC TGGATATCCC AAGAATCAGA GGTATATAN AAN 113

SEQ ID NO:5900

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07006

SEQUENCE DESCRIPTION:

GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT 60  
GNTTTGTTGG TATTGGGGAC ATTTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 120  
ACATAGACGT NGTTTTGCA TCCNTGACTT AACTGACTT GNACNCCNTT N 171

SEQ ID NO:5901

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07007

SEQUENCE DESCRIPTION:

GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAATNAGA GCAATTATAT ATATAATTNT 60  
ATATCATACA CAGAAA 76

SEQ ID NO:5902

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07008

SEQUENCE DESCRIPTION:

GATCACGGGA GCAATGCTGT ACGGTTTTGT ACACTGGTGG TTTGTTTCCT AGAAAACCCA 60  
TTGTNTCTCT GGATTCTAG CACATTACTA AAAGAGCCTC TNCTTTGTAA ACATGAAA 118

SEQ ID NO:5903

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07009

SEQUENCE DESCRIPTION:

GATCANNCTG ANCCAATTTA CCAAGCATT TTAAGGAGGA ATAATNCCAT ACCATGTAAA 60  
ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTT AAGTTGCGTT CACTAAATNC 120  
TGTCTGTTT CTCAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 180  
TTNGN 185

SEQ ID NO:5904

LENGTH:134

TYPE:nucleic acid

01742

2153480

TOPOLOGY:linear

CLONE:HUMGS07011

SEQUENCE DESCRIPTION:

GATCTACCCA ACTCTGTCAT CTGTAACAAC CAGTGATAAC TCTCTTGTCT TGTA AAAAGG 60  
GTTTATACAT AACTTGTACA TGGTTTCATT TTGTATTNC CGCAGATTAA AAATTTATGT 120  
ATTTCTNTTC TAAA 134

SEQ ID NO:5905

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07012

SEQUENCE DESCRIPTION:

GATCGAATTN CNACCCCTAA NCTTGTCGG ACGTATGGTC CAAATTCANA TTAAGGTGGT 60  
CACCCAACCC GAGATGTCAG GAAAGGCCTT CTGCAGAGAA AATNTCCCC CACCGGCCAT 120  
CTGCAGCCAG GTGTGTGCCA CACGGCAGCC TTCCCGAAAC ATAGTATGGA TTTTAAAAAT 180  
GTGTTTATTT TTNTNTCTCA ACCACTTTAT AACGTATTTC TCAATTTANN TTGTAATGTC 240  
TTGTNTTGGG GNGTTGCTGG GTATCCTTNG TTATGCTTCC CACTGTTNTT NTCACN 297

01743



SEQ ID NO:5906

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07013

SEQUENCE DESCRIPTION:

GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTCACATTC AGACACCACA 60  
CTATGGTTGC ATCACCCTGTC ACACCGACCT AGACAGCTGG ATGCCATTG GNGTAGAATA 120  
ACCACTGAGT TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 180  
AGTTTAGTTT GGNAACATG ACTTANAAGG GGCATCACTG CCCTCNCAT TTNTNTNANG 240  
GCCTCATTC CNGN 254

SEQ ID NO:5907

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07014

SEQUENCE DESCRIPTION:

GATCCATGAA GGAATCGGGA GTGGATGGAA TGCGGTAAAA CTGTCCTGGG GCCGGACCCG 60  
TNGCCCAAAG TCCGGACCNN GACCNAAAA ACGCTTCCAT CTTAGTCACG TTAGCAGAAA 120

SEQ ID NO:5908

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07015

SEQUENCE DESCRIPTION:

GATCCCAATT TTGTAAAAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA 60  
AAAAAAGCCT AGAAATAAAG CCACAAAAAT AAA 93

SEQ ID NO:5909

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07016

SEQUENCE DESCRIPTION:

GATCTCAATN TGCAAACCTC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT 60  
GTGTGGTTTC ATCAGGAAAT CCTGTCAGCA GGGGNTTAGA TGGTTCCTC AGGAGGTGGN 120  
GAGCTCCAT AGCATTGAAG GCCAGCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 180  
ACTTCCCCT NACCCATCCN TTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 240  
TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTTTACA ATTNACCNGN 300  
GTAAAN 306

SEQ ID NO:5910

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07017

SEQUENCE DESCRIPTION:

GATCATATAG AGTAGTTAAG ACAACTGTAA CAGCATTTTT TGAAATACAT TGTAATAATA 60

TAAAAGGTAA CATAATTAAA 80

SEQ ID NO:5911

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07018

SEQUENCE DESCRIPTION:

GATCTTAAGC TCTGCTCTCA GCAGATTTC A GGTGTACCAT TTGTAAACTG TACTGAAGGT 60

GTGTCCTCAA GAAGAAAGTG TTCAAATTAA AAAAGCTGCT GCCAAGTAAA 110

SEQ ID NO:5912

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07020

SEQUENCE DESCRIPTION:

GATCGGGAGG ACTGTGGCCA GCAATTAACA CCATGTAGAC TTCCTTAGTT CTTAAGTGGT 60

TGAATTGCT GNTTGTCTG TAACGTTATA AATAGTNNAT ATCTGAAGAC GGAGAGCCTG 120

TANTATTCTT CAGATTAAAT GAAGCGTGAG ACACTTAAA 159

SEQ ID NO:5913

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07021

SEQUENCE DESCRIPTION:

GATCTCTCCC ATGCCTTTTA AGCAATTAGA ACTAGATAAT GCAGCCATTG GTCACCCAAT 60

TAAATTTGAA AGGCCAGAAA TGCATGGATT AGCACTTCAG CTTTGCTGTC AGTCAAAGCA 120

ATTGTTACTT AGATAGAAGG ACAGTTAAAN TGAAAAATGA ATTTTGNTAA AANTGCGGNN 180

GTATAGATAA TATTCATTG TNCTTTTAA TGCTTAAACA CCCTGTATTC TGTATTTNAC 240

TTGTATCATA NTTTTATTG CTCATTCCTA TTTCCCTGNG ATACTTATTN CTTNCACAAAT 300

ATTTCTTCAN GTGGATATGT NCTTTAANTN 330

SEQ ID NO:5914

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07022

## SEQUENCE DESCRIPTION:

GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCGT TCTCGGGGCT GTCGATTNCC 60  
 TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCATTG 120  
 ACTATATTN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTGTA 180  
 ATNATTTNCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 240  
 CATTTTGCTA ACGCTTANNC TGAATAAAAG NTTTTTGATT CCTTAANAAA AGGGNNNGN 299

SEQ ID NO:5915

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07023

## SEQUENCE DESCRIPTION:

GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTTAG TCAATTAANT 60  
 TTTAAGNAGA TTCTTATNTA ATAAA 85

SEQ ID NO:5916

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07025

## SEQUENCE DESCRIPTION:

GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 60  
 GGACTATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCCT 120  
 GAATTCCAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 180  
 ATAAGGAAA 189

SEQ ID NO:5917

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07026

## SEQUENCE DESCRIPTION:

GATCCCTAGG GATTNTTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60  
 AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120  
 GCTCTAACCC TGCNTNNNAT TTA CTGCAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180  
 GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAG 215

SEQ ID NO:5918

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07027

## SEQUENCE DESCRIPTION:

GATCGGATTG ATTAATAAAC AAATNCTCTG GAATTTTNC GTTCATGCTT TTCCGTATTC 60

TTTATGGCTT TTAAATAAAT ATACAATGGT TAATAGTAAA

100

SEQ ID NO:5919

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07028

SEQUENCE DESCRIPTION:

GATCAGGGGT CCGGCTGTCC TTCTGTCCTG CTGCAGACTA AAGGTCTGGC CAATGTCTTG 60  
 CCCCACCCCG CCAGCCGCGA TACGGCGCAG TTCCTATATT CATGTTATTT ATTGTGTACT 120  
 GACTCCATCT GCCCCGTCAA ATAAAAAACC ACAAGGTTTCG AAA 163

SEQ ID NO:5920

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07029

SEQUENCE DESCRIPTION:

GATCACTGCT GCTAGCTGAC TGGACCTCCC CATTGGAAGT TTGTAATTTT NCTTTGGCAA 60  
 AGTTTCATTG ACTAGTAGAA CTCATTCTGT TTTAGTGTAT ATTTCAATAT AAATGTAAAC 120  
 ATTTTGCTCA AA 132

SEQ ID NO:5921

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07030

SEQUENCE DESCRIPTION:

GATCCTAAGG AAGGAAAAAG AAAGTGTTAA AAATTAATAA AGGTTTTTTT GAATCCCGTG 60  
 TCCTTCAAGT GCTTTCTAAC TTGAGAGGA AGAAATTGAC CACCTGGACT ATGGAAGTGT 120  
 GCGTAACAGC TTTGAAAGTG TATTTAAAN TTAANTCTAT ATGCCTTTAA NTCAGTGAAT 180  
 TGGAAACATA TTACATGNGN TTNATGATT TNCCTCAAAT ATANTAANTN GTTTCCTTTC 240  
 CAGTAGAAA 249

SEQ ID NO:5922

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07031

SEQUENCE DESCRIPTION:

GATCTGCAAG TAGCCTAAAA ATGCGATTGC TGGTAAACCT GGCCTCAAAT TTCATACTAC 60  
 CATAACTNNT TTTATATATT GCCACTAATT TTGACTGGAT TTAATAGCAC TTTATTGTAC 120  
 AACTACAAAA AAAAANTNTA TTCCTGGANT TGTGGCCNGT GTAATTNCTC TAATGTNCTG 180  
 GTGCTTTNCA N 191

SEQ ID NO:5923

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07032

SEQUENCE DESCRIPTION:

GATCTTATTT CATGAAGGTT GTATAAATGA AATCATTGAG TAATGTATCT TTTTAAGACA 60  
GGTTTTTTTT TTTNCTCAG CACAATTTC TTGAGGTTCA TCCAGGTTGT TACCCATAAT 120  
ACGAGTTTGT NAGTCTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA 180  
CCATTCACCC NTNGATGGG ATATGGGCAT TNCCNGTTG GNGCTATTNC AANTAN 236

SEQ ID NO:5924

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07033

SEQUENCE DESCRIPTION:

GATCTNTTTC ATAGTGTTCA AANCTGTATT ATTATATGTA GAGGGAAATA ATTTCTCAA 60  
CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N 101

SEQ ID NO:5925

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07034

SEQUENCE DESCRIPTION:

GATCTGCAGT TTCCCCTTTT NTCCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA 60  
ACCTTGAAGT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 120  
CAAGCTTTGT NTTATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGACGAGC 180  
ATTCACCAAC AAA 193

SEQ ID NO:5926

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07035

SEQUENCE DESCRIPTION:

GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC 60  
CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCCTCAC CCCCCTNACC TCTCCCAGCC 120  
AGGGCTGAGA GGATTCGAGG TGGCTGGGAG GGTTCAGG CCCCCTGCCC CTTNCCCACA 180  
AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AAGCCAGNCC 240  
NTNGGGCTGT N 251

SEQ ID NO:5927

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07036

SEQUENCE DESCRIPTION:

GATCTCGATA TTTCAATGG GCTTTNATG CACTGTTGCC AAGAAAGGCT TTCCTGATT 60  
TTTTNACAAN TNAATTTTG CACACTTCA TTGGTGTCTT TCGGCAACTT ACATTGAAAN 120  
TGAGCTATTG TN 132

SEQ ID NO:5928

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07037

SEQUENCE DESCRIPTION:

GATCCCTGGG TTGCCCTGTC CCAACCTGCT TGTTAGGTGC TTTCCCATAG NAGGCCCTTC 60  
TTGAGAAACA ATAACTAGG TAGAACTAAA 90

SEQ ID NO:5929

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07038

SEQUENCE DESCRIPTION:

GATCTCAAAA CTCATTGTGT GTACCATATA TNATGGTTTT NTGTCTATAT CATATATTTC 60  
CCTACTTATG TGTTTAAATN CTATTNGTN ATGTCAATCT CTCTGATGCC ACCTATTN 119

SEQ ID NO:5930

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07039

SEQUENCE DESCRIPTION:

GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60  
ATCTTGCCCTC CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120  
ACCAAGAGNC AATGGAGTAG ACCCCTGGNT GGTAAGGGNC AAGTNCACC GGTGCTTCT 180  
GGGAAGGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240  
TCTNTTCAGG AN 252

SEQ ID NO:5931

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07040

SEQUENCE DESCRIPTION:

GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTTGAATA AAATCTACCT 60

2153480

TACCATCTTC AACAAA

76

SEQ ID NO:5932

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07041

SEQUENCE DESCRIPTION:

GATCAGCACA GTAATGCCCC ACAATATTGT TTTTAAACAA AAAATGTAAA CATTCAAAAG 60  
AATCTCTCTA AATCACTGAT TAANTCATTT GACTGAAAAC AAA 103

SEQ ID NO:5933

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07043

SEQUENCE DESCRIPTION:

GATCTACCCG NCTNGGCCTC CCAAAGTGCT GGCATTACAG GTGTGAGNCA CCGTGCCCGG 60  
CACCAGNATC CTTTGGTATA GCCAAGCCTT TTGGTTACCG NCTCATGAAG AATATGCTTC 120  
CCGCATTGTC CTAGTCCCAG TTGTATTCTC ACAGGTGTTA TGNGGGGGGC ACAATCCAAA 180  
TNATAAACCT GGTTCATGNC CAACANATT NTGCTAAATA GGGAGGNGGG N 231

SEQ ID NO:5934

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07044

SEQUENCE DESCRIPTION:

GATCTGAGCC CAGCGTACAG AGAAGGCTCT GTGCAGACAC TGCTCACACC TCCAGCTCCC 60  
AGCTCACCTG CCCACAGGT GCCAGGTAC CTNTTNTANT GGCCAGCAGG GCCCTNACCA 120  
TCCTCAGCCT GCNTTCCAGT CGCCATTCT TTCCATTCTG CGGCTCGTGC TTTAAAAGCA 180  
ACCAGCCAAC CTTTTNTGAT ATAGTAGGGG ACTTGAAAGG GGCTAAGAAG ACTGANGATG 240  
GTCTGCCACC TTTAACCACA AGGNTTNGGG CTTTGTTN 279

SEQ ID NO:5935

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07046

SEQUENCE DESCRIPTION:

GATCTAGGAG AAGGGNCTCA TCGGACCCT CACATGGGCA GAAAAATGGT GGTCAATGGC 60  
CGACATCACA GTTTCCNGT TTCCACCCA GCTAAAAACC GTTGTGTTGCT TTAANTTTNN 120  
ATAAACTGGA ATCCTTTTAC CCGCTCCTAC AGCTAACCT CACANGCATG AGGTGCTGTG 180  
GCTGTNCCTT ATCCTAATGA TCGCTNNGG NCCCGTAAAT GTNAACACTC ATGAN 235

01750

SEQ ID NO:5936

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07047

SEQUENCE DESCRIPTION:

GATCAGTTAC ATTATCAGT TGGTGAGTTT TGAAGAATAA CTACATTNA TTCAAATA 60  
ACAAATGTAT ACGGTTTTAG TTCAGTGTTG AAGAATTNA ATACAATATT AANTNNCTN 119

SEQ ID NO:5937

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07048

SEQUENCE DESCRIPTION:

GATCCCTTTT NAAAAATATA TGTATGCATG TNTGCATTAA AGAGTCTGAA AGGATACTTG 60  
CCAAAGTGTA AAAGCATTTA TCTCTGGGAG GTGAGATTG GAGCAATTAT ATTNCTTTT 120  
TGCATATCTG TAACTNCTNA TTTCCCNCAA TGNGCATGTA GTGTCTGTAA AATTTCCAG 180  
GGAATAANCA NTGATGTTCA CAATATATAT TNN 213

SEQ ID NO:5938

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07049

SEQUENCE DESCRIPTION:

GATCCAGACC ATCCTGGCTA ACATGATGAA ACCCTGTTGC NTGTNGTACC AACTACTTGG 60  
GAGGCTGAGG CAGGAGAATG GCATGAACTC GGGAGGCGGA NTTGCAGTGA GCCTCCAGCC 120  
TGGGCAACAG AGTGAGACTC TCTCAA 147

SEQ ID NO:5939

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07050

SEQUENCE DESCRIPTION:

GATCCTGGGA GCCTCTGTTT TTTGCGCATT TCAGACACAG TCTGTGTGGC GAGGAGTGTG 60  
ANGGNAGGAG CCTNGGGTGC AAGCCCGTGT NTTTGGCCTC TTTCCTCGTG AAGACGATGT 120  
GTCCCCGTCA GAAAAAGTGG GCTCCNCTG CAGCCCCGTG AGCTGAGCCC AGGCTGCGTA 180  
GTGACCACAA GCTTATGTGN AGCACTGCTC AGGGAGGNTN TCAGGAATTC CCCTCACCTC 240  
GGAAAGGANC TTCTCAGTTT TTATTGGGGG TGTNTAAATT TNCTTNCATA TNGTTCATN 299

SEQ ID NO:5940

LENGTH:186

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS07053

SEQUENCE DESCRIPTION:

GATCCTTCAG GCAGTAAGGG AGAGTTTGC CTCCTTACAC AGTGGCCTTT GCTTGCACCT 60  
CCAGCTGGAG ATGGGTGTGC CCCAGAAGTA AGCTTTGCAT CTCTTACAAG AGGGGAGCTA 120  
CAGGGGCAGC CGTGGCCTAG GCCCAAATC TGCTCTGAGA AAATAAATAT CTGTACCACC 180  
TGTAATA 186

SEQ ID NO:5941

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07054

SEQUENCE DESCRIPTION:

GATCCGTNA TGGTCTGGGC AGAGGCTGGG TCAGGAGTCC CAAAGGTCAG TGACAGTTTC 60  
TCAGAAGAGG CCCAGCGTCC ACCTCTCTCC CAGGGCCAGA CACCTCTTCC TGGCTCCCCC 120  
ATCCCCCTAT GGGCTCCCAG CNCCTTGCAC CCTCATTGCT GNNNAGATTA AAGCCTCTGT 180  
TTTGACCTG TCAAA 195

SEQ ID NO:5942

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07055

SEQUENCE DESCRIPTION:

GATCATTCAC TGTTTTNGTT TTAATACTGG TCAGTACTAT GAAGCTTCTG TGGTTTGTAT 60  
GATGTTTTAA CTTTCACTTT AAAGTGCATA GAATAAATTA AATTGAAAAC ANCAA 116

SEQ ID NO:5943

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07056

SEQUENCE DESCRIPTION:

GATCCGNAAG CNAGANACCC TGCAGGCTGG CGGGGACCCA NGGGAAAGGC CTTCCCAGGC 60  
CCTTCTAACC CCTGTGGCCC TGGACTTTCC TTGTNTGGAC TCACCCAGG CCTGGN 116

SEQ ID NO:5944

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07057

SEQUENCE DESCRIPTION:

GATCATAATC ACTGCCTTAC CNNCCTCACG GTTGTNGTAA GGACTGAGTG TGTGGAAGTT 60  
TTTAATAAAC TTTGGATGCT AGTNTACTTA GGGGGTGTNC CAGGTGTCTT TAATGGGGCC 120

TTCCAGACCC ACTCCCCACC CTTNTCCCCT TCCTTTGCCG GGGNACGNCG AACTCTCTN 179

SEQ ID NO:5945

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07058

SEQUENCE DESCRIPTION:

GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTTCACACTT TCAGTAGATT 60  
TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAATA ATTTANGAAT 120  
AAAAATCCAG GCACAATATA TTTNNNTNAA NTGGTATTG TNAGTN 166

SEQ ID NO:5946

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07059

SEQUENCE DESCRIPTION:

GATCTTTTGT GACTACAAC TCTNTTGTA ATAATGATAT ATGGTATTNC CATCGTCAGT 60  
TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCTTCGC ACTTTAAGTA 120  
CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTNAATG GGNNGGGGNN 180  
TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTCAGC NNTATTANGN 230

SEQ ID NO:5947

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07060

SEQUENCE DESCRIPTION:

GATCCGCCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCCAG 60  
CCAGNGATT AATNTTAAT AACTAATTN AGGGCACAAT TTGACCTCCA TGNCAGCCT 120  
GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177

SEQ ID NO:5948

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07061

SEQUENCE DESCRIPTION:

GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60  
TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96

SEQ ID NO:5949

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07062

SEQUENCE DESCRIPTION:

GATCATAAAG CCACCGGCCA CTGCCACGCA TGTTGCACCT GTGCCATCGT GCTCCCTCCT 60  
 GATGGGCACC GTGGTGGAGG AAGTCACCCA GCTGTTTCTC AGTCCCAGAG GCCGGTGGCT 120  
 GGTTTTAAAC TTGTGTTGAC TGTTGATACT TATTTACTGT ATAAATATAA TTNATCATT 180  
 GTACCATGAA A 191

SEQ ID NO:5950

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07063

SEQUENCE DESCRIPTION:

GATCCAACCTG GGAGAACCTC AGCCAATGCT GGAAGNATGA TTGAAGTACC TCTCTTTTNT 60  
 NACTCTTGTA CAGCTTAATG TGCAATAAAG GAAAAGTTAT ATCTGTAAA 109

SEQ ID NO:5951

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07065

SEQUENCE DESCRIPTION:

GATCGACCTG AAATCCTCA CCAAAGTNCT CGNNCCGGAG CACGAAGTCC GGGAGGATGA 60  
 TGTCGACTGG GACTGGGACC ATCTGTTCAC TGAGGTGTCC TTAGAGGTCC TACTGAGTG 120  
 GGACCCACTG CAGACGGAGA AGGAGNACCC TGCNGGCCAG GCCATNCACA CCTNAGCCCG 180  
 TCACCCATGC TCTAGACATN AAGAANTGCA ANGGGN 216

SEQ ID NO:5952

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07066

SEQUENCE DESCRIPTION:

GATCCACCAA AATAAATGAT TTTCTACATT TTCATTTGGA CTAAATCCCA CGAATGACAA 60  
 CTACCACCTT TTTTCCTTT TTAATTAATA CTAAATATTG TGATTTCTTA TTTGAGGTTC 120  
 AAAATGACCT GCTTGAAACT TTGATACATA TTGGAATACA TTATGTTAAT AACTTTGTAG 180  
 CTTTTTGTGA AA 192

SEQ ID NO:5953

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07067

SEQUENCE DESCRIPTION:

GATCACACCC TGAACAATT GNGGATTGC TTGCTGCCCT GCATCTTAAG GCGTATTCTA 60  
 GCAGCAAAGC TTGTNATGCA CTGACTTGGG GCAAGTAAAA CTGATGCTGA GGACAAAGGG 120  
 AGANGATGTT CCTCGCCCAG GGAAATNAAA ACTTTNCTNA TTCACCTTGC TTGTGCTTAA 180  
 NCACTTATGT NCATCTAGTG TAGAATACAT GGCTACTTGT TTGTAATTNT NTNATTGGTG 240  
 GAATTAAAGT AATTTTCCCT TATCTTTGAN CTTTATTTA GAGAACTNAA ANAAAGCN 298

SEQ ID NO:5954

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07068

SEQUENCE DESCRIPTION:

GATCTNCAGG GGNATGTTTT ACCATCTGNA TCCAGCCTCC TGCTAACTCC TAGCTGACTC 60  
 AGCATAGATT GTATAAANTA CCTTTGTAAC GGCTCTTAGC ACACTCACAG ATGTTTGAGG 120  
 CTTTCAGAAG CTCTTCTAAA AAATGATACA CACCTTTCAC AAGGGCAAAC TTTTTCCTTT 180  
 TTCCCTGTGT ATTCTAGTGA ATGAANTCTC AAGANTCAGT AGANCNAATG ACNTTGGNAT 240  
 GTAATGNTNN 250

SEQ ID NO:5955

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07069

SEQUENCE DESCRIPTION:

GATCCGTNAA TNCNCGGAAT GGCAGGGGAA GCCTTGCACT AGGTGCAGA GAAGCATCCT 60  
 CCACATCCTG TGTCAGAAAC CCTGGTCTCC GTGGCACTTG TAACTCACCG TNCTGTCTNC 120  
 TGGTCTGTNT GTGTN 135

SEQ ID NO:5956

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07071

SEQUENCE DESCRIPTION:

GATCTAGAAT TGACATTTTG CCTTCTTGT TCCAGGTGTT TCTATTTTTT CTATTCTTTC 60  
 AGAGAAATCT CATATTTTCGG TGTATTTATT GCTGTACTA CTATATTTAC TGCTGAAAAC 120  
 TGTAACAACC TGAAGATTTG TAAAATGTTA AACATAGTTC ATTAATAATA ATAAATAAAA 180  
 TCTAAAATGT AAA 193

SEQ ID NO:5957

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07072

SEQUENCE DESCRIPTION:

2153480

GATCCTCCAA AGGCCTGCCC CATGNATTTA ACAGTAATAC AGGAAGCATG GCAGGCACCA 60  
TGCAAACCAA GGATGGATGG TGCAGTCCCT GTGTCAGTGG GCGGTGGTTT CCTGCTGGCC 120  
TGGAATCACT CATCACCTGA TTGATTGGCT CTGTGGTCCT GGGCAGGTGC CTCATAGGTG 180  
TGTGGNTATG ATGACGTTTC NNTAAAATGT ATGTNTTTAA CANATACTNA ATNGTATTAN 240  
GGTCATGTAC CAATGGNTTT NATAATGTTT NTN 273

SEQ ID NO:5958

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07074

SEQUENCE DESCRIPTION:

GATCAGAAAG NATTAATAT CACTACCACA TGAGTTAAAA CAAAAATGG AATAAAAAANC 60  
AAAAGTGGTG TCTATGTTAT CAGTGGNTTA CTTGATAGGN CATTTNAN 108

SEQ ID NO:5959

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07075

SEQUENCE DESCRIPTION:

GATCTTCACA AGGNTTGAT TGGCCACATC CACGTCCTCC GAGCCTACAT CAAGACCCAA 60  
GTGAACAAAG AGCTGGAGCA GCTCCAGGGG CTGGTGGAGG AGCGGCTCAA GGCCAGCGAG 120  
GAAAGGCTCA GCAGCAAGTT GACTGCACTA GAGCGGCCCT TCCAGCTACC TCCGGGTAAA 180  
GGCAAGAGCA AGACCAAGTG ACCCCAACA TTTTCCCCAA TAAAGGTCTG GGCCAGANTG 240  
GCACCATCCC TGCAAA 256

SEQ ID NO:5960

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07076

SEQUENCE DESCRIPTION:

GATCTAGTCA TCTGGTTAAG GATTTTAAGC AGATGCAACT ATAAACCCAA GAACTGTAT 60  
TACTATTACT GTTGGTCATA CTAAACCTGT CTATTCCTG AAGTATATGA CCCACAAGGA 120  
TGTGGAATAA CTAGGAGAAA CTGTTTTTGT AACTGTACA TCCTTAGTAT TTTTACACGT 180  
ATATGATAGG GATGAACATG ATTTNCTTC GTACAGACAG CTTANNTAAN GCACTATGTC 240  
ANTCTGCAAA ANAGNNNNNN NN 262

SEQ ID NO:5961

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07079

SEQUENCE DESCRIPTION:

01756

GATCTCAGCT CACTGCAACT NNTGCCACCT GGGCTTAAGC CATCCTCCCA CTCAGCATC 60  
 CCAAATAGCT GGGACTGCAG GCACACACCA CCACACCCAG CTAATTTTNG TATTTTTTGT 120  
 AGAGACGGGA TTTCACCATG TTGCCCAGGC TGGTGTGAA CTCATGAGCT CAAGTAATCT 180  
 GNTGGCCTTG GCCTCCCAAA GTGCTGAGAT TATAGGCGTG AGCACTGCAT CCAGCTCACT 240  
 CCTNATTTCT TTCTAGCCCC AAAGGGGTTG AGTCAGCAAA TCCTNCAGCC TTTN 295

SEQ ID NO:5962

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07080

SEQUENCE DESCRIPTION:

GATCCTGGAA TGTTTGCTGG AGAAATTTAA AATACNGGGG TTTTTNTTT AATGGTGCCT 60  
 ATTTAGAGTT GGAAGTTGAA CAGCTGTTGC ATTACATACT TTTCCTTTT NATTGAAATT 120  
 TTGAAATCAA ACGTCTTGAT TTTCCTNTCC TGTTGAATTG CTATGTNCAG GATGTCCTAG 180  
 GGGGTGGGGG CAGGGACTCT TTTCGTAATA AGCACTTGTN TTATNTGGTG TGTGTGGNGT 240  
 ATAAANGGCT ACACCCTTAT TNTAAAAANN NN 272

SEQ ID NO:5963

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07081

SEQUENCE DESCRIPTION:

GATCTGTGCT CTTCAAAAAA ATGGCAAAGT GGGAAATGTG GGAGGGGAAA ACACTTCAGA 60  
 ATAAAAGAGA TTAAAGAGAT GTATCAACAA A 91

SEQ ID NO:5964

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07082

SEQUENCE DESCRIPTION:

GATCAGGTTG TCTGCATTTG TTGGTGTAAG TGAACATCAT CACAGTTATC CTGAGTTGAG 60  
 TTAAAGCCAA ATANATGCAT AGAAAAGGCT CTTCTATTA ATGGAAGANG GTAATTTTAA 120  
 GGATGTGTAT TATTTCAAGT TTGTATGTTT AACTNTNATT NAATAAAGTG TTTTAAAT 180  
 CNCAAAAATN ANNN 194

SEQ ID NO:5965

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07083

SEQUENCE DESCRIPTION:

GATCTGCCTG AAGAAAATAT CTGTTTCTA TATAAAAAA TTTTAAATTA TAATTGTAA 60

GTTAGATTTA AAATTGTAAA ATATAAAATC ACAAAGGAAT GTACCTTATG AATGTTGTTG 120  
 ACATTTTATG AAATTATGTG GATTCATATT ACTGTTACAA GATAGANTTG AATGCAAAAA 180  
 GTCCAAAACC TCAATAAANT TTGAGGAAAA CGTGTATTATTA TGTAATTGAN NTANAANCAT 240  
 TTTATAATTG TGCANGTNAN NNNNAN 266

SEQ ID NO:5966

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07084

SEQUENCE DESCRIPTION:

GATCCCTTTN AGTTTTTCCA GGTGAGAAAT CCTATCAATT ATGTNATAAT NATATGTTTT 60  
 CCTNTTCAAA ATTTATAACA TAATTCCTGA CTGCATGGGT TAAACATTN CATAACAGTG 120  
 CTAAATAATA AAGGTGGCAG TGGCATTITT GTCTTGTTTC TCATTTTAGC CAGAATGTGT 180  
 TTGCTACAGC AATTCCAAAT TGTGTTTTGT GAAAAANAAA TATTCTNCTT NGGAGACANG 240  
 GNNNTACAT TTGCAN 256

SEQ ID NO:5967

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07085

SEQUENCE DESCRIPTION:

GATCAGAACA GGCTTAAATT GATGCTATAG AACCAATTAC TCTGTATTAT CTTTGCAACT 60  
 CTTTGTGAAG TCTAAAATTG TTTGGNAATA AAAGTTTATT TTAAANNNTA AAAAAANNN 119

SEQ ID NO:5968

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07086

SEQUENCE DESCRIPTION:

GATCTTCTAA TCGACAATCT ACATCATAGT GACCACCAGT AATCACCTGT AAGAGATTAA 60  
 AAAAGAAAAA TCACTGTGAA AAGTGTGAAA AATTAATCAG ATTTAATCAG ATTTCTTATT 120  
 AAAATGGCAA TAAGGTGATG GGCAAA 146

SEQ ID NO:5969

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07087

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTGTGCGGC ATCTCATCCC CCACTCTNTC CTTTCTTGCT CCTGCTTCCC 60  
 CCTTATNACT TGCCAGCTCC TGCTTCACCT TCCACCATGA GTAAAAGCTC CCTGAGGCCT 120  
 CCCCAGAAGC CAAGCAGATG CCAACACCAC GCTTCCTGCA GCCTGCAGAN CTGTGAACCA 180

ATTAAACCTC TTTTCTTTAT AAA

203

SEQ ID NO:5970

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07088

SEQUENCE DESCRIPTION:

GATCTTCCAA AAATTTATTA AGTGTTTACT TTAAAGTGG AAACAATGTT TTTAAGAGGT 60  
 GATATAAAGA AA 72

SEQ ID NO:5971

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07089

SEQUENCE DESCRIPTION:

GATCCCTAGC TTGTTTTCTG TCAGTCATNC ATTGTAAGTA GCACATNGCA ACAACAATCA 60  
 TGCTTATGAN CAATACAGTC ACTAGGTNTT AGTTTTNTTT AAATAN 106

SEQ ID NO:5972

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07091

SEQUENCE DESCRIPTION:

GATCTGTGTG ACTGATGGGC AGGGCTCAAT GATGCCCAT TGAAGTGA GCTGCTCAC 60  
 ACCACTGACC TGGACCCNAA CAAAAAGCTG ATTGTCTTTT TAAAAGTTAT TATTTGCCC 120  
 TGAGCAAATT GCATTTTANT TGGGGCAGTT GGAGTGTGA NTTCTGGCA GCATTGTGAA 180  
 GNNGACCNG GTGGANGTTT NCTGTCCNG GN 212

SEQ ID NO:5973

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07093

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCATC CTAAAGTGCT GGGATTACAG GCGTGANTAC CAAGCCCGGC 60  
 TTTTTTTGTT TTGACATGGA GTTTCGNTCT TGTCACCCAG GCAGGAGTGC AGTGGCGTTA 120  
 TCTNGGTTCA CTGCAACATN CGCCTCCTGG NTTCAAGTGA TTCTCCTGCC TGAGCCTCCC 180  
 ANGNACCTGG GNTTACAGGT GCTCCNACCA AGNTN 215

SEQ ID NO:5974

LENGTH:140

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS07094

SEQUENCE DESCRIPTION:

GATCTGGAGG TTTACAGAAG CCTTTACCCA TCCTGAGACT CAGTTCTGCT GTTGGTCTNC 60  
 AGAGAAGTGT CTGCACCTGC TGAGANGNAA TCACACCACT GCACTCTAGA CTGGGCAACA 120  
 GNGCGAGACT CTGTCTCAA 140

SEQ ID NO:5975

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07095

SEQUENCE DESCRIPTION:

GATCTGTTGA AGAACTCAGC TGCTGGAAAC CATGCAAAAT GTTTGAATT GCCCTTAAAA 60  
 TATGGAAAAT GTTTCTGAA TGCTTTATAT TCTTCTGCT GTAAATTAAA AATGANGAAA 120  
 ATTTCCCAT AAA 133

SEQ ID NO:5976

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07096

SEQUENCE DESCRIPTION:

GATCCCTGCC CTTTGGCACA TCCACTGAAA GGCCAAACAG CAAGTCCGAG TGAGTTTAA 60  
 ATATTAATTA ATCACCTTT ATTTTACA CTTGAGAGTG ATTGTAATAA AGGCTGTCAT 120  
 TAATAAACTT GGTCTACCT TAAA 144

SEQ ID NO:5977

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07097

SEQUENCE DESCRIPTION:

GATCTAGAAA TTGCCCTCCT TTTACCCCTA CCATGAGCCC TACCAAAACC AAATTANCC 60  
 CTGGGCAACT AANTAAGGTT ATTGGACATN CCCTTCTNAA TTAATNATCC AATN 114

SEQ ID NO:5978

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07098

SEQUENCE DESCRIPTION:

GATCTGACTT CAGACAGAAA CCAATACCAG CTCCTTTTC CTTTAAACNT TTGAAGAGTG 60  
 TTGATTTGTT ACTATATTAC GTATGCAAAA CTGGAGAGNG TATNGNTNGA TN 112

2153480

SEQ ID NO:5979

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07099

SEQUENCE DESCRIPTION:

GATCCGTCCC TAACAACTA GGAGGCGTCC TTGCCCTATT ACTATCCATC CGTCAATCCG 60  
TAGCAATAAT CCCCATCCTN CGATTATATC CAAACAACAG ANGCATTGAT ATNNTNGCCC 120  
NACGTAAGGG N 131

SEQ ID NO:5980

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07100

SEQUENCE DESCRIPTION:

GATCATGTAG GACGNGGCAT CCTGCCCTG GTAGAGAGGA CGAATNTTC AAAACANTGG 60  
GCTCTACGGN AAAAGAAGT AGGTTAGTCA CCTTCTGGAC CCTGTCTAAC TCGTTTGCTN 120  
AANAGN 126

SEQ ID NO:5981

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07101

SEQUENCE DESCRIPTION:

GATCTTATTT AACCAAAGAC TATTCATTC CTGATATGAT TTGTGTGCTT GATTAAAATG 60  
GNANTTAATG ATATTGAAA 79

SEQ ID NO:5982

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07102

SEQUENCE DESCRIPTION:

GATCAACAGG CTTATTAGAA GAATGAACCTA AGGTGAGAGA CCTCATCCTG AGAAAGGTTG 60  
AGTTAATGTT AGAGTATAAG TGGTGGTAAT CTTGAATACT TTTCCCATTA AATATTGATG 120  
GGGGTTTGAN TTTTAATCAG TGCTTTTNTG GGNAGTGGGG GTCAACTATC TTAATGATTA 180  
CAGTTGGTTT GTTTACTGCT TTTGAGGACC TTTCTGGAGG AAAGGAAAAG CCTGTTTGG 240  
GGAGTCTTTA AAGATGGAAA TTGGGTGGTC N 271

SEQ ID NO:5983

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

01761

CLONE:HUMGS07103

SEQUENCE DESCRIPTION:

GATCAATATG TGACTGGAAC CATTGGCGAG GATGAAGATT TGATAAAGTG GAAGGCACTG 60  
TTTGAGGAAG TCCCTGAGTT ACTCACTGAG GCAGAGGAGG ANGNATTGGN TTNGAACCT 120  
GCNTN 125

SEQ ID NO:5984

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07104

SEQUENCE DESCRIPTION:

GATCTNATTG TATTGTCGAA GGACTATTTT TNAACCTGTC CAAATAAACT CTGCAAAGNA 60  
TTTCCACAAG AAA 73

SEQ ID NO:5985

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07105

SEQUENCE DESCRIPTION:

GATCCTGCCC TGCTCTCAGC CATAGTGAAG GACCAGCCCT AGGAGTCTGC GAGAGCCTCC 60  
TTGGTTCCAT CGTGAAGCCA TAAACAGGAA TGCCTTTGGC AATAGCCTTG AGCCTAGAGG 120  
GCCCTCTNAT GCCCCACTGA GGTGCTGTTG GTTATTGCT GGCANCGTGA ATTCTCTCAG 180  
GGGTCTAGGA GGGGCATTTT GGAGACTGCC TGACANCACC NCTATCCCCT GCCTCCCN 240  
CTNAGAAGAG GGTGAAGNA TGAAATGAAA GCTATGGGNC TTTTGGGAGG NTAACCCAGN 300  
GTCTATTCTA GGGTTNGNGG AAGTGNNTAA N 331

SEQ ID NO:5986

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07106

SEQUENCE DESCRIPTION:

GATCCCCTGG CCTGGTGCCC AACTGCCTC GCAAGCGCTC GCCACCCTCA CGTGGCTCAC 60  
CTGCTGTTGA GCCTGTGCT GTCAATAAAC GGTGTGAGGA TTGCAAA 107

SEQ ID NO:5987

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07108

SEQUENCE DESCRIPTION:

GATCAGATAT ATCCACAACG NGTTTAAGAT TTTCAATATT CTTAGAGAAA ATCAATAAAG 60  
TCAATAACTA CTCCACCATG AAA 83

SEQ ID NO:5988

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07110

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGACATA TCTGCAAATN ACTACCTATA GCCTCATGAA AGTACATTTT 60  
ACAAAATGTA AANNCAATG AACACTAAAT TTAAGAGCAG TTACAGTGTG ACTCACTCAT 120  
GTTTAAAAAA ANTCGGNGAG CTA AAAAANTA CGTCTAN 157

SEQ ID NO:5989

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07111

SEQUENCE DESCRIPTION:

GATCGAGTCT GCTCTGACCT CTCAATCTCC TTTCTCTCCC AGGCTGCTGC TCCTGCTGCC 60  
CTGTGGGCTG TGCCAAGTGT GCCCAGGGCT GCATCTGCAA AGGGGCATCG GAGAAGTGCA 120  
GCTGCTGCGC CTGATGTCGG GACAGCCCTG CTCCCAAGTA CAAATAGAGT GACCCGTAAA 180  
ATCCAGGATT TTTTGT TTTT TGCTACAATC TTGACCCCTT TGCTACATTC CTTTTTNTCT 240  
GTGAAATATG TGAATAATAA TTAAACACTT AGACTTGAAA 280

SEQ ID NO:5990

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07112

SEQUENCE DESCRIPTION:

GATCTCCAAG CAGGAATATG AGGAGGGCGG GAAGCAGTGC GTGGAGCGAA AGTNCCCCTG 60  
ATGGCACTCC TCCCACACA CCTGCTCCA AGCTCAGATG GAAGTCCCTT AACCCCATG 120  
CCACATTGCC CCCCTCCTCC TTTCCCTCTT GTCCTCATTG ATGGTGATGT TTCTGGGTTG 180  
AAAGAAGTAA AAATGTTTTA AGAAA 205

SEQ ID NO:5991

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07113

SEQUENCE DESCRIPTION:

GATCTTTAGC AGTCTCTTCT AGTTTCCCTG GATTTCACTG ATTTATTANT TAGGGAAAAAT 60  
GAAAAGAGGA CCTTNTGTG CGCCTGCACT GTTACTGGT AAATAATAAC AAATTATGC 120  
TGCCAAA 127

SEQ ID NO:5992

2153480

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07114

SEQUENCE DESCRIPTION:

GATCGCTTGA GCCTGGGTAG AGGCTGCTGT GAGCTGAAAT GCGGCCNCTG CACTCCAGCC 60  
TGGGTAACAG AGCGAGNCCC CGACTCAATA AATAAATAAG GATGGATAAA TTGTAGCGTA 120  
TGCACCATTC ATTATGCTAA GACATTTTAA AGTAATTATG AGAAACGCTC TACTAATGAT 180  
TTGTTTTTAT TTGTATTTN CTGCTTATTA GACAAATATA TNCTCATTTT AAAANGGAAA 240

SEQ ID NO:5993

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07115

SEQUENCE DESCRIPTION:

GATCAGAACG AGCTGTTAGA ATTCAGAGTG CTAGAACTCG AAGTAAGAGA CTCTATCTGT 60  
TGTAACCTCT CAAACGGAGC AGACATTCTC TTTGAACCCA AACTGAAATT CATGTAAAGC 120  
TCTCAGATGT TTTCAAGCAT GTGTAAAGGG GACATGTTAT AGTTTCTTTC TTTCTTTCTT 180  
TCTNTNTTTT TTAAANCTG TATGTNCAGA ATANTTNCNC TGCCTTAATG TGTNCTGGNG 240  
AGCGTGCTCA CCCAGGNCTN TGGCCATGTN CCAGAGCTAA TATATTTNTT GCCTATGGCT 300  
TNGTNTGGCA CTTAATGAAT ANTTGTGN 328

SEQ ID NO:5994

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07116

SEQUENCE DESCRIPTION:

GATCTTCAAA ATCCAGGAGG GAACCGAGAT AACACAAGTA CAGGTGTGCA AAATTACTTA 60  
GTAAACTAT TTNTTCTATT ACTCCTTTTT TGCAAGTACA TACATTAAAT GATAANTTNA 120  
TTGTGAAGTT AATAAANTGC CCATAGCTGT TCTATTACCT TCAGAACTA TTTCATAAT 180  
TGANAAANAC TTGGNGTAAG TACATGTGTT ATATANCACC TACCCTAGNT GCTCAAGTGC 240  
GTNNNGGAGN 250

SEQ ID NO:5995

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07117

SEQUENCE DESCRIPTION:

GATCCTCCTT CCTCAGCTAC TCAGGAGGCT GAGGCAGGNG AATGGCATGA ACCCAGGAGG 60  
CAGAGCTTGC AGGGAGCCAA GATTGTGCCA TGGCACTCCA GCCTCGGCCA CAGAGCAAGA 120  
CTCCGTCTCA AA 132

01764

SEQ ID NO:5996

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07118

SEQUENCE DESCRIPTION:

GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60  
TGTTTTATAA AAAGCAAA 78

SEQ ID NO:5997

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07119

SEQUENCE DESCRIPTION:

GATCAGAAAG TGTTATTTAA CAGAAACTAC ATACATTTTT NATGTCTCTC TGGACCCTTT 60  
GATTCTAAGT AAATTTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118

SEQ ID NO:5998

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07120

SEQUENCE DESCRIPTION:

GATCAAAAAG AGGAAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAACTAAA 60

SEQ ID NO:5999

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07121

SEQUENCE DESCRIPTION:

GATCTCCTTC AGAATTTTGG TCTTGACTTT GAATCTTTGC CTGTTTGTCT AAACATTTGA 60  
CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120  
AAATAAA 127

SEQ ID NO:6000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07122

SEQUENCE DESCRIPTION:

GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60  
GGCCAGAATG AATGTAATAG TTCAGACCAA TGCCTGNCCA CTGCTCCTTT ATGACTGCAC 120  
TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180

TGNGCTNTNT CTCCN

195

SEQ ID NO:6001

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07123

SEQUENCE DESCRIPTION:

GATCCCAGCA TGGGGTGAGC ATGAAAGAGT GGCAAACAGA GTGGCATAAG ACAGATAAAA 60  
 TACAAAAGGC AATTACAAA GGACCAGGAC CGCAGAGGCA GAGATAAACC AGTGGGCTCA 120  
 GACTTCTGAG CGTCTCAGAN AAANNNAAN AAANN 156

SEQ ID NO:6002

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07124

SEQUENCE DESCRIPTION:

GATCTGTCTA GCTTATTAAG ATGAAAGT AATTGGAAAA ATAGCTCCAT TTTTGGTGC 60  
 TTGGGAAGCA CAGTGACCA AAAAGTTGTA TGGCTGCTTA TTCATTAGTC TTTCTACTG 120  
 ATGTCAAATC CATGGTACCT AGAGTTAAAT AAAATTCAA TGCTCTTACT CTTTAA 177

SEQ ID NO:6003

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07125

SEQUENCE DESCRIPTION:

GATCCAGTTG GGAATAAGTG ACATCGTATC GGTTCCTGTT CAGATGACAT GGGGAAGATG 60  
 ATGGTTCAGC CACTGGTACT ACGAGAATGT TTGTATTACC CACATTTGAA TTNATTTGCT 120  
 ATGATTTTNA TGAAGATTAA AAATATATAC ACAGTTCCTG GTATGTTGAG GTTGTCTTTA 180  
 TTATTCTTAC TCAGAAAGGA AAATTTGTAA ATATGTTTGT GTGGCTCAA CTGATACTAT 240  
 TCTTACANCT GGANCATTGA AAATNCAGAG GGCTGTATT GGNTATTAGN GAGGNCCTCG 300  
 AATGN 305

SEQ ID NO:6004

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07126

SEQUENCE DESCRIPTION:

GATCCTCAGG CTGGTATACG GCGCAATGTT GCATCAGCTN TGGGCAACTT GGGNCCTGAA 60  
 GGTTCGGGAG AGGAGCTGTT ACAGTGCAGG GTACCCAGC GGCTCCTAGA AATGGCATNT 120  
 GGAGACCCTC AGCCAAATGT GAAGNAGGCT GCCCTCATTG CCCTCCGGAG CCTGCAACAG 180  
 GAGCCTGNCA TCCATCAGGT ACTGGTGTNC CTGGGTGCCA GTGAGAAACT ATCCTTGCTC 240

TCTNTGGGGG GNTCAGTCAC TGCCACACAG CAGTNCTAGG CTTGNCTGT GCCAAAACAA 300  
TTGNANN 307

SEQ ID NO:6005

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07127

SEQUENCE DESCRIPTION:

GATCTCTCTC CGGCCCTTA GAAGCCCTCT CCTCACTGCA GCCCTGGTGC TCTGGGGAAG 60  
GAGGGGCATT GACAGGTGGT TTGACTGTTT ACCCAGCAGC CCCGCTTCCC CACTGGTTTC 120  
TCTCCTGGCT GCCGGCGGNG GTAGGCTGGG AAAGCTTCCC CNTCACCTAG GNCGGGCCAG 180  
CACCGGCCNG GGNCNNAAGA GGTCCNCTNN ATCCN 215

SEQ ID NO:6006

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07128

SEQUENCE DESCRIPTION:

GATCCGAGGG GAAATNTTTA GAGCCCTCAG GAGGAGGAAG AGACCGAGTT TTAGGAAAAA 60  
CATCAAAGCT GGATAGGTTG GGCAGAAGAG CTGGGGATAG CATTAGAGA GGCTGAGAGT 120  
CCTGGGTCTT GGNTTATCAC GTGTGAGNGA AACNGGAGGT TGCTANTTGT AGGTGGGCGT 180  
CAGGNTNGA GTGNTGCTTC CAGANGTTTC TGCAAGTGGG CCGGGTCTAA GNTAGGGCAT 240  
GTTACGCCAG ANGTTTNAGG GNCCTAGGT AGN 273

SEQ ID NO:6007

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07129

SEQUENCE DESCRIPTION:

GATCACAGGG AAAAACCGAC CGAGCTCAGG AAGCCTAATC CAGGTGGTAA CCACAGAAGG 60  
AAGGACGGAA CTCACCCAG CATATTTTGA GGCCTCATCT CAGTGCCTAT NAGGGGCCTG 120  
CCAGNAAGGT CACTAACCTG GTCTCAGTGT GGCCTTGTC AGCCTTGTGT TTNCTGTAA 180  
CCCCGNTTGT TGGTACGAGN TATTGNNTCC TATATTACGG ANACAGANCC NTGNTTTCGG 240  
NTTTGTCATN 250

SEQ ID NO:6008

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07130

SEQUENCE DESCRIPTION:

GATCCCAGTN AGTCATGAGC CTCAACCCCC TCCAGCCCAC TGGGGCTCTN ACCTCCACAT 60



GTGGGTAGAA GCTTNCCTGC CCCCTTTNCC TCCAGGAAGC CCTNAN

106

SEQ ID NO:6009

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07131

SEQUENCE DESCRIPTION:

GATCGCCTGA GCCCATGAGG CCAAGGCTGC AGTGAGCCAT GGTACGCCA CTGNATTCCA 60  
GCCTGAGTGA CAGAGCAAGA CCCTGTTGAA AACAACAACA ACANCAAA 108

SEQ ID NO:6010

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07132

SEQUENCE DESCRIPTION:

GATCTAAAC TATTTTCTG TATAATATT ATTTGCCGAA AGTTTGTTTA TATTNAGAAG 60  
TCTGACTATG ATGAATAAAT CTTAAATGCT TTGTTTAATT GAAAAACAAA AATCACCAAT 120  
ATCCAAGACA TGAAGATATC AGTTCAACAA ATACTGTAGT TANGNGACTA NCTCTCCACT 180  
TNTATGGGAA CTACATTTC CTCTTGGTTT TCAGGATATA GCAGCACTTC ACCGAGATAT 240  
TCTTTCAGCC ATANCACTGG TAACATTCT NCTNAATCTN TCTGTAGCAC TTANAGGANT 300  
TCCCTCATTC GNTNCCTTTC AGTGTNNCG GGNGN 335

SEQ ID NO:6011

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07133

SEQUENCE DESCRIPTION:

GATCCAAAGT AGCTGGGATT ACAGNCATGA TACCACANCA CAGTCATTTG AATNTATCAT 60  
TACTTAGTAC TCNTATTTTT TTCCCTGCTG CTCCTTATGC ANTGAAGTCC TN 112

SEQ ID NO:6012

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07134

SEQUENCE DESCRIPTION:

GATCTCCTTT TGATTAATTT ATAGAGTTTT TGATTATATG TCTTTGTATG ANCTTTTATG 60  
TTATTGCTCA AATATCACAT TTNATATTTA TAACACAGGC TACTGATGTT GACATTTTAA 120  
CAGTTCAAGT GAAGTGTAGA AATCTTACCC ATTATCCCTC CCTATTAATN NNNTANTGGT 180  
CTTAAATGTC TTTCCCTACA TATATTTNTA ACANGTATAT GAGATAGCCT TACAGTTTTG 240  
NCTTAACTA TCAATCATGC ATTAGGNNAC TCAAGNGGN 279

2153480

SEQ ID NO:6013

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07135

SEQUENCE DESCRIPTION:

GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGTT AGGAGGGACA GGGTCCCT 60  
AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTACAAT AAAGTTACTG TCAATCAAA 119

SEQ ID NO:6014

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07136

SEQUENCE DESCRIPTION:

GATCGAGGTT GTTGTCAACG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA 60  
TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGAACAA 120  
GATTGTCCTG AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 180  
AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 240  
GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGTA 300  
AANNCTTNC CTTN 315

SEQ ID NO:6015

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07137

SEQUENCE DESCRIPTION:

GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTTCTAATA AGGAATTTGG GTAATTTNA 60  
ATTTTNGTT TTTTAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 120  
ANTGTTTTTA ATATTCTCAT CTCAACATTG TGATATATGC TACTAAAANC CTTTNCATAT 180  
ACATCTNACC TCATTTCAGG TGANTNATTN TAATCTNN 218

SEQ ID NO:6016

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07138

SEQUENCE DESCRIPTION:

GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA 53

SEQ ID NO:6017

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

01769

CLONE:HUMGS07139

## SEQUENCE DESCRIPTION:

GATCGACTTA TACCTATGCT AAAGTTAACG GTCTGAGAAG GTAGATTAGT GGTTCCTAG 60  
 GGCTAGGGAG TGGGTTTGGG GGTGGGAAT AGAAAGTGAC TGGTCATGGT TATAGGCTTT 120  
 TTTGTAGCAC CATAAAGATA GTTAAAAATT AGATTGTGGT GGTGATTGCA CCACCCTATG 180  
 ATTTGCATGG TATGTGANTT ATATCTTAAT AAAGCTGTTT AANANGTCAA A 231

SEQ ID NO:6018

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07140

## SEQUENCE DESCRIPTION:

GATCCGCTCC TAACCTGCGA CCGCAGCTGA CCTTCTCCTG CCACTAGCCC GNCCCTGNCC 60  
 TTAACANACG GGATGAAGTT TCCTTTTCTG TCGCGGGCGC TGTTCCTATA GGCAGAGCGG 120  
 GTGTNAGACT GAGGATTTCG CTTCCCTCC AAGACGCTGG GGGTCTTGGC TGCTGCCTTA 180  
 CTTNCNNGGG GTCCTGCTG ACTTCGGAGG GCGGGATGCA GAGCCCAGGG NCCCCACCGG 240  
 AAGATGTGTA CAGCTGGTCT TTAATCCATC GGCAGGGCCC GAGCCCAGGG ACCAGTGACT 300  
 TNGGCCTGGA CCTNCCGGTC TAACTGCAAG CATCTTCCCC AGGGCAAAGG NTTTNTGGGG 360  
 GAACGNGAGG TTTNATNTTN 380

SEQ ID NO:6019

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07141

## SEQUENCE DESCRIPTION:

GATCTATTTT GTGTGTTTTG AAACCTAGGT GCAATNTCCC CTGGAAAAAG CTAAAGAAAT 60  
 GTATATGTTT AATNACATTT TAAAATAAAA TATTATATAT ATGTAAA 107

SEQ ID NO:6020

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07142

## SEQUENCE DESCRIPTION:

GATCGATTTG ATAAAATTAA ACAAAGTGCT TTTAATGGAA AAAAAAAGA AA 52

SEQ ID NO:6021

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07143

## SEQUENCE DESCRIPTION:

GATCCACTGT AATAGTCCAG TTTGGGGTGC AGACAAGTGT GAAGAAGTTC TGGAAAAGAC 60

AGTGAAAAAC TGCTTGGCCC TGGCTGTTGA TAAGAAGCTG AAATCCATTG. CATTTCATC 120  
 CATCGGCAGC GGCAGGAACG GTTTTCCAAA GCAGACAGCA GCTCAGCTGA TTCTGAAGGC 180  
 CATCTCCAGT TACTTCGTGT CTACAATGTC CTCTTCCNTC AAAACGGTGT ACTTCGTGCT 240  
 TTTNGACAGC GAGAGTATAG GCATCTNTGT GCAGGANATG GCCAAGCTGN GCGCCGNNN 300  
 NGGCTNGNC AATGNCAGGA CCNGNTTGA CCATGGTACC GNACCTNAG TTTNN 355

SEQ ID NO:6022

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07144

SEQUENCE DESCRIPTION:

GATCTTGAG CTNCTGGAGA AGCAGGNTG CNAGCTGCTC AACCGNTTCC AGGACTAGCC 60  
 CCCGCAGGCT CGTGCCAC CCCGCTCTGG TGAATAAACG CACTCCCTGT GCCTCAGACA 120  
 AA 122

SEQ ID NO:6023

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07145

SEQUENCE DESCRIPTION:

GATCCGATAA TGTACCATGT GCCTGCTGGT TTGGCCTGTG CTGTTTCTGC TTTTGCCCC 60  
 TNACTTCCTG TGCTAGAGAA AGCCTTATTG GTGTTGGTGG TGGTGATGGG AGGGAAAAGG 120  
 GTGGTCCTTT GGGACTCTTG ATAAAAATNT TATCATTGA AA 162

SEQ ID NO:6024

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07146

SEQUENCE DESCRIPTION:

GATCCAGGCC AATGCATGGC TATTGCTGTA AATCTTGATG TTTATTCTG CCTTGTAAG 60  
 TTCTATCACG GCCTACCTGG AATTTAAAT TCAGTAGACA AATTAATTGG TCCTCTGCAC 120  
 AACTTTTTTA ATAAGTAGAT TATTTNCAA NGGGNTTNGA NCAANTTNA TTGANTCTN 179

SEQ ID NO:6025

LENGTH:403

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07147

SEQUENCE DESCRIPTION:

GATCAGAGTG GCTGGAGCAG AGTGAATNAG GAGGGAAGCT GAGTAGCAGG TATCTGAGAA 60  
 GCAATGCAGC CCGCAGCTTA ACTTCAACAT GCTTTTAAAC TTTTNNCCA TTCTNTTGAG 120  
 TTTCAAGATA TAACCTTGAG GAAACTCAAA ATCCTTCTC CTTAGCCTTA AAATAGACTC 180

CACGTCCCTC CCCTTTNTCA CCAGATATGC TCCCTTTNCA TTTATCTAAC TGTATGCTAC 240  
 TATTTAATTG TGTGATGTCT TAGANGTTTC AGTGGCTAAT CTGAGACAG ACCAAGNCTG 300  
 GAGACCCAGC TGGCAANCCT TCCANNATT ANCTTCAAAA TTGGCTAATT NANCAACCNG 360  
 GCCCTTNGTT NNAAATTATG GTNATTCCGG GGGNCCCGGN TGN 403

SEQ ID NO:6026

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07150

SEQUENCE DESCRIPTION:

GATCTTGCTG CAGCCACAGT GCAGTCCACA TTAACCTAC AGACCAAACC ATTTGTATCT 60  
 GGCATCACTT ACTAACACAC GACATGCAGA AAAGCCGCAT GTNGTGTGTT AGTATACANG 120  
 AAGGAATAGA AACTGATAC TGTTTTAAAT ANTCTGTAAT TTCAATTTT TTNTTTTNN 180  
 GCTGAANTGG GTCNTNTN 198

SEQ ID NO:6027

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07151

SEQUENCE DESCRIPTION:

GATCATAACT CTTTNTTGAA CTAGAGTATT TTTGCAGCAT TCCTTGTCAT CAGAAACATG 60  
 GTTAAAGTTT AAAACTAGAA GCAGCAGAAA ACTAGCTTGT AAAATTTATC CAAGTAGAGT 120  
 GCAGGCTAGG CTGTCTTGGG GAAATAAACA TTAAANCTTA AAGCAATGTT TTACATGGAA 180  
 ANNNNANNNN 190

SEQ ID NO:6028

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07152

SEQUENCE DESCRIPTION:

GATCTTGTCG CATTNTTGAC CTTGGACCTG CTTGGTTAAG GAGGGAGTGG GCCAAACCAG 60  
 AGTGCCAGGA GCTAATGGAG CCAGGCCTGA CTCCTAGGAG TGGTCCAAAG GCCTTCAGCC 120  
 TAGATGGTGC AAAGNTGGGG CCAGCCTGTT TTCACCGGNA CCNGNGCCTG TGACACCAAG 180  
 ACCCACCCCA ATCCAGNNT TNACACAGTA TTNTCCN 217

SEQ ID NO:6029

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07153

SEQUENCE DESCRIPTION:

GATCGGAGCC TACTTCCCTC CGCTCAGCCT NGAGGAGCTG AGNCCCTACT TCAGGGACCG 60

TGGGTGGCCT CTGCCCCGGC CCCTCTAGAC GTGCACCAGA AATAAAGGCG AAGACCCAGC 120  
CCCTCGGCGG CTCAAA 136

SEQ ID NO:6030

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07154

SEQUENCE DESCRIPTION:

GATCCAAACC CAAGTCTTGA GCAATGTTTT TCTCAAAAAG CTGCTATCCA ATNATATAGG 60  
AAAATACATT GTGTTTTCCT AAACACACTT TTCTTTTAA ATGTGCTTCA TTGTTTGATT 120  
TGGTCCTGCC TAAATTCAC AGGCTAGGNC AATGAAGGCT GAATCANNGN CANTTCATCC 180  
ACCAATATCA TGTGTAGATA TTATGTATAG AAAGTANAGT AANTTATGGC TCTAACTTCT 240  
GTGTTGCTGT NTATCCTTGN TTTTNTCGG GGGTGNTN 278

SEQ ID NO:6031

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07156

SEQUENCE DESCRIPTION:

GATCAGTTGA TGTACACTTG TATTATTAAA GCACTCAATA AATCACTGTG GCTGATAACT 60  
GCAAA 65

SEQ ID NO:6032

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07157

SEQUENCE DESCRIPTION:

GATCCACATG GCACGGTGAC TGTAAGTAAT GCATTTTATA TGTCAAAATT CCTTANATAG 60  
TAGATTTTAA ATAATCTCAC CACAAAAAAG TAGATGTGTT GGTGATGGAT ATCTTANTN 120  
GCTTAANGTA NTTGTNTCAC CAATGTATAC ATNTATCAGN N 161

SEQ ID NO:6033

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07158

SEQUENCE DESCRIPTION:

GATCATCTTT ACAGTTCCTC GGGAAAATNT GAATGTCCTG CGTTTTGTTT TCTTTACTGT 60  
ATGAAAACAG GAAAATAAAA GAGAAATTTA GAAAATACAG CTCATTACAA TAAANNTNTT 120  
GGNTTTCAAA 130

SEQ ID NO:6034

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07160

SEQUENCE DESCRIPTION:

GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60  
CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCATNTCCA 120  
TTGGTTATTT AAAGTTCCN TAAAAATAAA CGATTTTAAG TAAAA 165

SEQ ID NO:6035

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07161

SEQUENCE DESCRIPTION:

GATCTGGGGT CTGTTTGTGTT CATTACTTTG TTCACTCCTT CTTCCATTTA TTCATTCAAT 60  
AAACATTAT TGGGAAA 77

SEQ ID NO:6036

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07162

SEQUENCE DESCRIPTION:

GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCTT CAAAGCCAGC 60  
CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCC AGGATGTAGA 120  
AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTTCCACT AGAAGATTCT CAACTGGAGC 180  
CAGCCTTCNG GCTCAGTGGT TGTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240  
TCTCCAGATT TCCTCCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300  
NGGGAAGNTN 310

SEQ ID NO:6037

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07163

SEQUENCE DESCRIPTION:

GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGTNTACAT 60  
CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120  
TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180  
GATTCTAAG TATTTTNNNA GCAGCCATNA AAAATTGGNC TTTGTNTTNG TTGATTCATN 240  
NGGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288

SEQ ID NO:6038

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07164

SEQUENCE DESCRIPTION:

GATCAGCCA CTGCACTCCA GCCTGGGCAC CAGAGTGAGA CACTGTTTAA A 51

SEQ ID NO:6039

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07165

SEQUENCE DESCRIPTION:

GATCTGGGCA GGAACATCA CATACCAGGG CTGTCTGTCG GGGGGGTGGA GGGCTGGGG 60  
AGGGATAGCA TTAGGGGAAA TACCTAATGT AAATNACAAG TTGATGGGTG CAGCAAACCA 120  
ACATGGCACA TGTATACCTA TGTAACAAAT CTGCATGTTG TGCACGTGTA CCCTAGAAGT 180  
TAAAGTATAA TTAAGTATAA 195

SEQ ID NO:6040

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07166

SEQUENCE DESCRIPTION:

GATCAGGCC CACCTTGTTG CTACCCCAT CCCNGCTGTG AACGTGACAN TGAATAAAGT 60  
CGGGGAAACG CGAAA 75

SEQ ID NO:6041

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07167

SEQUENCE DESCRIPTION:

GATCTGAATT GAGGAACCTG TAGTTTTTGC TCTCCCACTT CTTGGAAACC CCTATCTACT 60  
TTCCTATGTA TTTGACTACT TGAGGTAGCT TATACAAGTA GAATCATACA AATGTATTGT 120  
TTTGTGACTA GCTTACTTCA NTTACAATAA GTCCTCAAGT TCTNCCATGT TGCTGTGTGT 180  
GTCAAAATTN CCTCCTNGC TAAGGCTGAA TAATATTNCA TNGTATATAT ATGNCNTTNA 240  
TCCAGTCATT CATCAATGAN TACNTGTTTT TNGTGTGTGG TGTGGAANC CTNCTGGGGA 300  
CATGGTNATA TTTT 315

SEQ ID NO:6042

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07169

SEQUENCE DESCRIPTION:



2153480

GATCTAAGCT GATTTAAATC TAAAACTGG ATAAGAAGCT GTGGCTTGTA ATTAAAAATA 60  
GACCTTTATT CACTAGAAA 79

SEQ ID NO:6043

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07170

SEQUENCE DESCRIPTION:

GATCAGGTAT TTAAAGGACA TCTGACAGTG CCTGGCACGG GATAGGTGCT CCATAAATGC 60  
CTGTAGCTAT AATTATTACT GTNCCACTAG CTGTTTACTT AAGTAACATT GAATTTCAC 120  
AGANTGCATT TCGAATCAGG TGGACTATGA TTATACTGAT TNTNAAAATA GNGAGCTGCA 180  
TCTGTAAAA 189

SEQ ID NO:6044

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07171

SEQUENCE DESCRIPTION:

GATCTGGAGT GGAAGGGGAA TTCATTTGTT CATTGCTCTAT CCTTTTGTAT TGATTGAATT 60  
TTTNATATAT ATATGTAAAT TTNCACAATA AAATTTTTTN CCAAAATAAA ATAAACAAAA 120  
GGGGCTTTTT GCAACCCAAT TCCTATCTAA A 151

SEQ ID NO:6045

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07173

SEQUENCE DESCRIPTION:

GATCATAGCA CNTATCATC TAAAAAGTTA ATAATAGATT ACTTGTAACA CAGGCTCACT 60  
ATGNGAGAAT TCATCAAGCT GTATGTACAT TTATTGTGCT CTTCATTGTA TGTATAANTC 120  
AATAAATTGA AACAGTAAAC GAAAAGGTAA TTNTAGANAN CCTACAGTGA TNCTTGNN 178

SEQ ID NO:6046

LENGTH:380

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07174

SEQUENCE DESCRIPTION:

GATCCGTCAC AGACTAAGGA GATGGCAGGC ATTGACAGCT TCACTCCATG AAGGCCATCT 60  
CTGTTTCTNT CCTCCGCTTA ACCAAGCTGT TGTGGTTTTT NAGCATAGTG TTGTATGTTT 120  
CATTGCTAGC TGTCTGCTG TTAAACACAG TGTGTATTT TTTNCTAAA TGTACATAAT 180  
TAGAAAAGAA GATAACAATA GGANGCTATG TGTATCTCCT GTGTAAAGNA GTGGCTTCAC 240  
TGAAAAATG GTGTGGCTAG CATTTCCCTT TGAGTCATGA TGACAGATGG TGTGAAAACC 300

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ATCTAAGTTT GCTTTTGACC ATCACCTCCC AGTAGCAATT NTGCTTTCAT AATCCNTTTT 360  
AGCANTCCAG GCCTCTTTGN 380

SEQ ID NO:6047

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07175

SEQUENCE DESCRIPTION:

GATCGTAATG TAAATTCTT TTACCATGTC AAGAAATTAT TAAAAATACA GGTACTTTGA 60  
CCTCTTTCTA AA 72

SEQ ID NO:6048

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07178

SEQUENCE DESCRIPTION:

GATCCTGAAA AGATAGGGCT ATTGTCCCCT GCCTCCTTGG TCACTGCCTC TNGCTGCACG 60  
GNCTCCTNAG CCCACCCCT TGGGGCACA CCTGCCACTG CCACAGTAGC TCAACCAAGC 120  
AGTTGTGCTG AGAATGGCAC CTGGNGAGAG CCTTCTGTGT GCCAGNTTTT GTTCTGAGTG 180  
CTGTACATGT ATTANNTCCT NTA CTGCTNG CCACATTGTA CCNNTN 226

SEQ ID NO:6049

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07179

SEQUENCE DESCRIPTION:

GATCCCCGTA CCACAGTGCC AGCCATGCC TTCCCCTGGG CTACCATTGT CCCTTTCCTC 60  
ACCCAGTTGG TAGAGGAGTC AGGAGGTGGG AGGCCGTGGG CTTTGGTTTT ATAATGTAAC 120  
CACTGTGGGG GTGGGGGAGG ATGGTGAACC ATGTATTNA GTGAAATATT TAATATATTT 180  
AANTATCANT AAANTCAAAC TCTTTGTAAA ANANANNAG NANGN 225

SEQ ID NO:6050

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07180

SEQUENCE DESCRIPTION:

GATCATCCTG GGCAGCAAAG TCATACACTC TTGAGGGAAG AGAGAGACCT TCTCATATTG 60  
TTTTATATTG TTTTATACTC AGTACCTGTT TTAAGAAAAA AACAAGGAAG TGAAATCAAA 120  
GACAGGCAGC CCGGCACCAG GCCTGANACC AGCCCTGGGC CTGCNTGGCC TAAACCTAGT 180  
AGTTAAAAAT CAACTACGA CTTAGANCCT GATGTTATCC GTAGATTCCA AGCNTTGTAT 240  
AAAAANATTG TGANACTCCC TGTGTGTTC TGTGCCAGTG CATGNNACCC CTGTCACATA 300

TCCCCTAGAT TGCTCANTCA NTCNCGGTTT GN

332

SEQ ID NO:6051

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07181

SEQUENCE DESCRIPTION:

GATCACAGGC CTTTGGAGCA CTTTACTCT CTGAGAAGAA CTGGAGCTAG AGATGTAAAA 60  
 TGGACAGTCT TGATGGGGTT GAGAACCTTC TGGGGAGCCA GATGACCCTC TCTTGCACA 120  
 ATAGATAAAA GTCTTTATAT GANTATATAT AANTTTNTT NTTTTCCCT TCCTGTGGGA 180  
 TTTCTGGAGA ATGAGAATTA TCCAAATNCT CAGTCTACCT GNGATAGTAA ATNCATGGCT 240  
 TATGCTTCTG GTCCTTAAA 259

SEQ ID NO:6052

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07182

SEQUENCE DESCRIPTION:

GATCGNACCA CTGCACTCCA GCCTGGAAGA CCAAACGAGA CTCTGTATCA AAAAATAATA 60  
 ATAATTAATA AAGTTTACT GGAAAAAGA AA 92

SEQ ID NO:6053

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07183

SEQUENCE DESCRIPTION:

GATCAGCTAC AATGCCCTGT GTTAAATTNT TAAAAGTTT CCCTTTTCTT TTTTGCCAAT 60  
 AAAGTTGTAA ATAAAGACCA TCATACATTA AA 92

SEQ ID NO:6054

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07185

SEQUENCE DESCRIPTION:

GATCCCTTCC CGCCACACGA TGCTCCGTTT TCTTCCGTTG TGAATNCCGC GTCCTGTCCT 60  
 GGTGACAGGA GAACAATNTT GGTGAACGTC GCAAA 95

SEQ ID NO:6055

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07186

## SEQUENCE DESCRIPTION:

GATCTCCTTC TCACTGCATT CACTCGGTTC CCATAGCCCA AGTCATATTG TNTCTCTCCT 60  
 GGACAGTAAT AACCTTTTNT TGGGCTCCCT GCTTCCAACC TTGCCTTCTG TAGTGTACTT 120  
 TCCAAATAGA AGCCAGAGTG ATACCTTATA TTAAG 155

SEQ ID NO:6056

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07187

## SEQUENCE DESCRIPTION:

GATCAGGAGG CCCACTTGGA TTTATAGTAT AGCCCTTCCT CCACTCCAC CAGACTTGCT 60  
 CATTTCGGA GTTTTAACT AGACTACCT CTATTGAGT TAATTTTNTC CTCTAGGATT 120  
 TATTCTGTT GTCCTAAA 138

SEQ ID NO:6057

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07188

## SEQUENCE DESCRIPTION:

GATCTGAAAA CCAAGTGGTG ACCTAGGGAG GGAACAAGCN CTGTGCAGCA TTGATGAAAC 60  
 TTAAGATG AAGTCTGGT CCGGGCACGG TGGCTCACTT CTNTAATTCC AACACTTTGG 120  
 GAGGCCGAGG CAGGAAGATG GCTTCANCCC ACGACAAA 158

SEQ ID NO:6058

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07192

## SEQUENCE DESCRIPTION:

GATCTNTGGC CCACTCCGCA TAAATCAGGT GCATAATGTA GCTGCCCGGG CTTCTATACT 60  
 GCAACATTCG CAAGGCAATT AGCTTGAAAA CTGAATTGAT GTACATTGAT TTTTAAATA 120  
 AAGTTATTGT AATATATTCA CTCGTTATAA A 151

SEQ ID NO:6059

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07193

## SEQUENCE DESCRIPTION:

GATCTATACC CTAAGCAGAT AGCAAAGAAG ATAATGGAGG AGCAATTGGT CATGGCCTTG 60  
 GTTCCCTCA AAACAACGCT GCAGATTNT CTGCACAAAC ATCTCCACTT TTGGGGGAAA 120  
 GGTGGGTNGA TTCCAGTTCC CTGGACTACC TTCAGGAGGC ACGAGAGCTG GGAGAAGAGG 180

CAAAGCTACA GGTTTACTTG GGAGCCAGCT GAGAAGAGAG CAGACTCACA GGTGCTGGTN 240  
 CTTGGTTTTN GCCAGGCTCC TCCGAGCACC TCATGCATGT CCCAGCCCCT GGGCCCTAGC 300  
 CCTTCCNGN CCTNCGTCT NCAGTGCCAG NACGGAANTN CCTTGNACCA NNGGNTNTTN 360  
 GN 362

SEQ ID NO:6060

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07194

SEQUENCE DESCRIPTION:

GATCCATCAT NATGTAAAN TTCACAATAT GGTTCAAATG TAACANTGCA GAATTGAATA 60  
 TGGAGGCATG CATAACCTTC CTCTTAGAAA ATGGCAGGTN TTGTAATTC AAATTTTNT 120  
 GCAATTAGAT TAANTCATAA TGCAACAAA 149

SEQ ID NO:6061

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07195

SEQUENCE DESCRIPTION:

GATCTTGCTT TAACTTCAA CACTTAGAAA ATCTACAAAC ATTCAGACCT GTCTGGGTTG 60  
 GTATTGCCAC CCATGACATT TAACATGTTG TGATGCTTGA AAACACAGGA GTAGAGAAAN 120  
 TCGATGANGA TTGTATTTN NCACCTTAAC TCCACATTGC TTTATTGGNT AATTNATANN 180  
 CTNN 184

SEQ ID NO:6062

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07196

SEQUENCE DESCRIPTION:

GATCAGTAGT CTCTATTCAA ACTTNAAAA TGTCGTGGTA TTGTAACAAT ATATTTAATG 60  
 AAAGANGGTT ACAGACTCCC CTGAAGAACC AGCTTTCCTA CGCTTTTAT TTNCTAACT 120  
 TGTCTAACCT GATTNAAAA TGACTGCANT TCCAGACTAA AAACATGCTT CANCCCTGTT 180  
 TCANGACATT NTGCTN 196

SEQ ID NO:6063

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07199

SEQUENCE DESCRIPTION:

GATCCAACT CTACATCCAG AGATTATGAA AAATTCTTAT AGAATTTTGT AACAAGTATT 60  
 TACATGTTGG GTGAAAGANA TTTCATAGTC GTTGGAGTGC CATGAAATTA ATACTTGCAA 120

TTCAGATTGC GGTAGTTTAC ACTTTTCCTG TATGTTTCAA ATCAGGTGTG TACCATTGT 180  
 NCTGAGANCA CCACAGANTG ATTTATCCAA AGTCCATTGA TTTTNATACG TGTTTTGGTT 240  
 TGTNACCAAN TTATNGTNAT TCNTNGCACA TTTTGGNAA TTNATTGTAT AGGNN 295

SEQ ID NO:6064

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07200

SEQUENCE DESCRIPTION:

GATCTTCGCT GATTNNNTCC ATCAATNACC CGGAGCATCC ACTNACGCTA GAGGAGTTGA 60  
 ACGTAGTAGA GCAGGTGCGG GTTCAGGTTA GCGACCCCGA GAGTACAGTG GCTGTGGCTT 120  
 TCACACCAAC CATTCCGCAC TGCAGCATGG CCACCCTTAT TGGTCTGTCC ATCAAGGTCA 180  
 AGCTTCTGCG CTCCTTCCT CAGCGTTNNN NNGATGGACG TGCACATTAC TCCGGGGACC 240  
 CATGCCTCAG AGCATGCAGT GAACAAGCAN CTTTGCAGNT AAGNGCGGG TGGCAGCTGC 300  
 CCTNGNGAGC AN 312

SEQ ID NO:6065

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07201

SEQUENCE DESCRIPTION:

GATCAGTGCT CTTCAAGGTG TCAAGATTAT CAAAGACATA AAAGANTGGN TGANCTGCCA 60  
 TAGATTGGNG GAGACAATGC AATGTGAAAT CCTGANTTTG ACCCTGAN 108

SEQ ID NO:6066

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07202

SEQUENCE DESCRIPTION:

GATCTTTAGT CCGAGTATGN GAAATTCAAG CAACTTTGCG AGANAAAGGA ATACTATTTT 60  
 TNAGNCAACA AATTAAGGAA CTTGAAAAGC TAAAAANTCA GAN 103

SEQ ID NO:6067

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07204

SEQUENCE DESCRIPTION:

GATCANNGAA ACTAAACATT ACACCTTCTG GNCTTTNATT TATGAAGTGG CACAGAATCT 60  
 AACTTTNCAC TGAATATCTT TCCATTACACA TCTCCTCTGC CTTAGTCACA ATGGCAACAG 120  
 TACAGNN 127

SEQ ID NO:6068

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07206

SEQUENCE DESCRIPTION:

GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAACTT AGTTATGAGT GAAGCCTCTG 60  
TNCACCTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCA 120  
TATNCCTATA TTANAN 136

SEQ ID NO:6069

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07209

SEQUENCE DESCRIPTION:

GATCAGAGAA GGTTTTGTGT GTCTTTTAA TCTTTACTTC TTTGAATTGT GAAAGTAATA 60  
CTACATATTC ATAATAAATT CAAATAATAC AGAAGTATAT TATGTAAA 108

SEQ ID NO:6070

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07210

SEQUENCE DESCRIPTION:

GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT 60  
CTGAAACCTG ACATGCTCTA AGTGTAATAAT ACATGGTGGA TTTTNAAGAC TTGAACCAA 120

SEQ ID NO:6071

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07211

SEQUENCE DESCRIPTION:

GATCCTGGCC CTCCACCTNC CTCCAGGCCA CGAAATGGGA ATNCCAGCAC TAAGCCAGGC 60  
ACCGGGCAGA AGCTGGGCCT TCCGCCTCCN TTGGATGGGG TCAAGAGGCC ANGCTGGNA 120  
CATTTTGGNG TGTCTGGCT ACCAGCTCTC ACCTACANCC ACGCACCTCT NTAN 174

SEQ ID NO:6072

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07212

SEQUENCE DESCRIPTION:

GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA 60

2153480

TGCACAAGGT TAAAAACCAC ATATACAAAT ACTATAGAAC AGCTTATANT GAAAACCTTG 120  
CCTGCCTTTA TANAANNTGT GATTATCTTC TTCTGTAAAT GTCAGTAANN GATGGTTTGT 180  
CCTAAA 186

SEQ ID NO:6073

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07213

SEQUENCE DESCRIPTION:

GATCTGAGAG ATGATACATG ATACCAGATG AAAAGAAGGA GAAGTGTGTA CCATATGTTT 60  
TNAGCAGAGG NCCCTCCAAC TTATGGCATC AGGGGCAAAA AGTCACAGCT TATCCCAGGC 120  
ACCTTGGCAG GTTCTCAGAG CCTGCCTCCT CCCTGTTTAT ATGCGTACAG CCTGGTAACC 180  
CCCAGGCATG CAANTATACA GTCTGTAACA ACAGGNNNTT NNTNNNTTN 229

SEQ ID NO:6074

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07214

SEQUENCE DESCRIPTION:

GATCTTAAAA CTGAATAAAA ATATTTAATA AAACTTTGAA ATATTTTAAA 50

SEQ ID NO:6075

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07215

SEQUENCE DESCRIPTION:

GATCCATTCT ATCCATCCGT TATGTGGCTT TGCCATCCCA GCTTGGAGTG TCTTTACAAA 60  
GATAATAACA GTTGTTTTCT TTGCTCTCGT TTTGGATGCA TAGACTGAAA AATTAAAACA 120  
AATAACTTGT AAAATGGCTT GTNAAAAAAT ACAATTACCT CTAATTAGTA GTACGCGTAA 180  
NTNTTTTACA GAATGANAGG CGTGCTTTNN ATTCCTTAC TGC GTTACAT TGGTGGCGAA 240  
AGANGTCTGT ATGANANTCA GTNCTTNTGC TGACACAAGN TCCATTGTGT NACANAN 297

SEQ ID NO:6076

LENGTH:191

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07216

SEQUENCE DESCRIPTION:

GATCCTCAAT CAGTGGGTGG AGGATAACAG GGTAGATTCA CTTGTTTGCA CTTNTACAGT 60  
TG TAGCTGCG AGTCCAGAAG TCCTCTAGAG CATGTTTACT GGCAGT GAGT TGGT GAGACA 120  
GTTGTGGAGT ATCCATTCT GATGAGTACA GAAAAAAAAA GAAAAAGAAA NGANGAGAAA 180  
AANTTANGAA A 191

01783



2153480

SEQ ID NO:6077

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07217

SEQUENCE DESCRIPTION:

GATCCGAGCG TCGTGAAGCTC ACCTGAACTT TGGAAGGTTG GCACTGGGGG GCCGCATCCC 60  
CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACCCAGTT 120  
TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAAGGC GCAGGGGCC ACCTACGCGT 180  
CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAATCAC CCAATTAGAC CTAAA 235

SEQ ID NO:6078

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07218

SEQUENCE DESCRIPTION:

GATCTATTGG ACCAAACCTT CTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGTGCCA 60  
TCTTCTCTGA CTTTGTGTTT TTTCTGTTC GGAACCATCA GTCCCCTTGT AATAAAGGTG 120  
GTAGATTTC A TTGAGGTTTT AGATTGAAAC TTTGAATAAA TCAAAAATAC TCATTCTTAA 180  
A 181

SEQ ID NO:6079

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07219

SEQUENCE DESCRIPTION:

GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAAACT TAAA 54

SEQ ID NO:6080

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07220

SEQUENCE DESCRIPTION:

GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCATGGC 60  
CCAGGAAGAC AGGTTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGTGTCC 120  
TCCCGCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCCTGTT GACTTTTTCT 180  
GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA 225

SEQ ID NO:6081

LENGTH:291

TYPE:nucleic acid

01784

TOPOLOGY:linear

CLONE:HUMGS07221

SEQUENCE DESCRIPTION:

GATCTCTNCT AACNNTAGTA AATAAACACT AAAGTGGTGG GCTTTGATAA TGCATTNNGT 60  
 GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 120  
 TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTTT TNCTTAAGGG GAGGACAGAC 180  
 CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 240  
 CATACCTGCT TGTACAGGT NCAGNGTAAG TGGTCTTNGC TNCTGTGGGA N 291

SEQ ID NO:6082

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07222

SEQUENCE DESCRIPTION:

GATCTNCCCT AGCCCTCTNT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCCTA 60  
 ACTNTNGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTTGGTN 107

SEQ ID NO:6083

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07223

SEQUENCE DESCRIPTION:

GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAG CTAAAATCAG 60  
 GAAAGAAAAG GAAAAATACG ANTTGAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120  
 TAANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173

SEQ ID NO:6084

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07224

SEQUENCE DESCRIPTION:

GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AAACNCTNA TTTCTCTTCA 60  
 GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120  
 CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTTCTT 180  
 CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT TTCTGTCTGT 240  
 GAAATGTCTA TATAGTGAT TGTGTGTTTT AACAAATGNT TTACACTGAC TGTGCTGTA 300  
 AAAGNGAATN TGGGAATAAA GTTATTTN 328

SEQ ID NO:6085

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07225

SEQUENCE DESCRIPTION:

GATCTCAGCT ATTTAAATAC AAACCTGAAA AAAATATTTT TCCAGGGTAC CATAAATATG 60  
ATTAANTNNN TAAAAAATTT AGTGTCACCTT GATGAAAATA TAACTAGACC AATAGTAAAA 120  
TNCAGGTGTA TCTTANTTCC CTGANGTCCT CATTN 156

SEQ ID NO:6086

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07226

SEQUENCE DESCRIPTION:

GATCCTGGGC TGCTGGTGCT ACCTGCGGCT GCAGCGCATC ANCCAGTCGG AGGACGAGGA 60  
GAGCATCGTG GGGGATGGGG AGACCAAGGA ACCCTTCCTG CTGGTGCACT ATTGGGCCAA 120  
GGGACCGTGC GTGGAGAGAA AGGCCAAGCT GATGACTCCC AACGGCCCGN AAGTCCACGG 180  
CTGAGCCAGG ATTCAAGGNT CCTNGTCCTA TTTNCAGCCG GCCAANNNGC GCTNGNAGGG 240  
GNAAANCCAT ACGGTTGCGC TNNTGTCTGA GAGGAN 276

SEQ ID NO:6087

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07227

SEQUENCE DESCRIPTION:

GATCTTGCCA CATCTGGCAC GGAGACGACA CAGTAATNCT GAAAAAGCCT CTATGTAGTC 60  
CTGTTAGTNT CTTAAAGAAC CTAAGGCTN GGACCAGTAA AATCCACAGA AATCACTCT 120  
TGCCTTTAAG AACTTTTGAA AACTGTTTAA A 151

SEQ ID NO:6088

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07228

SEQUENCE DESCRIPTION:

GATCCAATGG ATTTAAACAG AAGCNCTTTG CCAGGCTTGC CAGCAAGAAG GCAGTGGAGG 60  
AACTTGCCCTA CAAATGGAGT GTTGAGGATA TGTAACCTTC CTNAGGCTGT GGGGGTGGCT 120  
GGNCTGTGGT AGTGGGCATA GGCAGCGAGA TATCCAGTGG TAACAGTTGT CTGTGCTAAT 180  
AATTGGAGCC CACACAGNCC AGCAGCTTGT TGAATGCCAG TTTTGACCAC AGAAGGTTTA 240  
TTCGAGGCCT NATGTTTGA CTGAGGTACC TGTACTTCTT NGGGTGTTGA CAGCACCAGC 300  
TGTTGCTGGN TTTAGAGGG AGCGTTGATT TCTCNTTGAC CAGGGNTTNT TCTTTGGTTA 360  
GGGTGTTTCT TCN 373

SEQ ID NO:6089

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07229

SEQUENCE DESCRIPTION:

GATCAGNAGA GGCCANGCTC CNCCCCACCC CAAACAGCAT GAACTTCCCA AGGCTCCATC 60  
CCTTTCTCCC AGTGCACAGG CTGGTCACTT TCTCCGGGTA CCCCCTGGG TACCTGGCT 120  
GTCTCAGTTC TATTAAACCA TTTCCCACT TTTGAGCATT TACTCACAGT TAAA 174

SEQ ID NO:6090

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07230

SEQUENCE DESCRIPTION:

GATCTCAGAT TTTTTTGAA GTTAACATGC CTGACACAGA CATCCTTCC TCTACAAGC 60  
TGTGTGACTT AGTAGATAAA ATACTGCCTT CTGCCCTTGG GACCATGATT AAAACAAAG 120  
ACAAAAACCA AAAGTCATTA AA 142

SEQ ID NO:6091

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07231

SEQUENCE DESCRIPTION:

GATCACTGGA CATCAAGAT TCATTGCACT TATGAACAAG GAACCTTCTT TTCAATTTCT 60  
GTGTAATTG CAAGGCTGTA CAATGTGTGC TGATGCAAGC CTTTTTCAGT TCAAGAGAAT 120  
AAATGTTTAC AANTATAAA 139

SEQ ID NO:6092

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07232

SEQUENCE DESCRIPTION:

GATCTATAAA TCAAGAAAAT CCATTGTCAT AACCATTTT AAAAGTCAAA AATTAAGACA 60  
TCCTTAATTA AAANGTTTCA AATCTAGACA CTAAATGTGT GTGANTGTAC AAAGAAAACA 120  
ANCCATTGCT TATNCTGTTA TATACTAGTG NNCCTTTTAN TTTTGCTTGC TGTTTTAAAC 180  
TTGGACAGTT TGAGGACTTT NGTTGGANCT TCGTATTGTA NGANCTGTTN 230

SEQ ID NO:6093

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07235

SEQUENCE DESCRIPTION:

GATCGAGGAC TATTCNGTG CTATTCATTC CTCCATTGCT AACAGATNA AAAGCGACGG 60

TTNCTNCACT AACAGCAGCT GGGAAAGANG TTATGCTTGT TGN

103

SEQ ID NO:6094

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07238

SEQUENCE DESCRIPTION:

GATCCCAAGG ACCTGGAGCC ACGGGCTGCC AACTGCACTC GGGTACTGGT GTGGCATACT 60  
CGGACAGAGA AGCCCAAGAT GAAGCAGGAG GAGCAGCTGC AGCGGCAGGG CCGGGGCTCA 120  
GACCCAGCAA TTGAGGTGTG ATGGCGGCCC CACCCCAACT ACCACCTCTT TTCAGGCACA 180  
GACCTTGTGG GACTGGGNCC AGGCCTNCCC AGGATTGTGG GTTTTCCAA AGTCCTTGAC 240  
CNTTTN 246

SEQ ID NO:6095

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07241

SEQUENCE DESCRIPTION:

GATCCACCAG CCTCAGCCTC CCAGAGTGCT GGGATTACAG GCGTGAATGT AATNNTTTT 60  
AAAAAGAAAA ACATGGNTGT AAAGAAAGTA AAGCTTCGTT TTGAACAGTT ATGATGGTAA 120  
CACANCTCAA NGGTGCAACT AANGCAGTGC TGCANCCN 158

SEQ ID NO:6096

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07243

SEQUENCE DESCRIPTION:

GATCTGTGAC ACTNACATGG CTGTGGTGTG CATACTGTGT AGTTACATAG CCCTTCCAAT 60  
TCTGGGTCCA TTGCACTAG CAAATTAAAA TATGCTTTGA TTCATACTTA AA 112

SEQ ID NO:6097

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07244

SEQUENCE DESCRIPTION:

GATCCCAAAC NACTCACTCC TTAAATTCAC ACTTTGCCAC TTAACCTCAG TGTGGATGAC 60  
AGAGCGAGAC CCTGCCTCAA A 81

SEQ ID NO:6098

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07245

SEQUENCE DESCRIPTION:

GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT 60  
GNAGGCTACA AAGTACGCCG AAGTACCCAC GTAAGTGACG TTAN 104

SEQ ID NO:6099

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07246

SEQUENCE DESCRIPTION:

GATCTTTTCT AAATATTATT ACTTGAAAT AAAGTCTATT TTGNTCCCGT GAAA 54

SEQ ID NO:6100

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07249

SEQUENCE DESCRIPTION:

GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 60  
TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTTA TNAGNTCACT NGTAACCTTT 120  
GAGAATNNTC TGN 133

SEQ ID NO:6101

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07250

SEQUENCE DESCRIPTION:

GATCGTNCCA CTNACCTCCA GCCTGGGGGN NAGAGCAAGA CCGTGTCTCA AAAACAATTN 60  
AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGAATAAAC TCTN 104

SEQ ID NO:6102

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07251

SEQUENCE DESCRIPTION:

GATCTCAAAA AAGAAGGAAT TTCTCCTNTN TNTCTTGCA TTAATGTAAG ANTACTTTAA 60  
ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120  
TNTTAN 126

SEQ ID NO:6103

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07253

SEQUENCE DESCRIPTION:

GATCAAGCCA TCGGAGCTGC TAGAGTTCTG TCTGGACTTT CCAGAGACCA AGTNTTCCCT 60  
TTTGCTGCCT CTAAAAGGCC TGTGCCTGCA GACATGTGAG ACAGCAGGTC TGATGGGGGT 120  
GACAAGCTTT NTTTTTTTNN CCNAAAGAAN TTNCAAATTC AATTCCAGAT TGNTTTTNN 179

SEQ ID NO:6104

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07257

SEQUENCE DESCRIPTION:

GATCAAATTT CANTGGCTTT NGACAGAAAA GAAGGCTCTG GATTTAAGCG GGTGGTCACC 60  
TGTNAGACCA GGTCTACCTT GGGACTGTNA TTAACTGAA TCAGTTATTT CCTTGAAATT 120  
TCACAGTAGT GGGTGGGCCT GTTTTAAGGN TCTGACAGAT ACCACGAAAC ATGAAGCAGC 180  
TGGAAGTACA AGACCCCGG GGTCTTTCTG AGTGCAAGGC TGAAATGGGN CAAGGGCTCC 240  
TCACGGGGNG TGGAGGGNNG CCGGGAGNCT TNCNTGGTTG TNCNTTTTT TGN 293

SEQ ID NO:6105

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07259

SEQUENCE DESCRIPTION:

GATCCCGTNC GGCGCGCTGC CCGAGAGGAA CAATGACAGC TTTGCAGTTC TCCNGGAGTN 60  
CGCTGAGGAG CAGCTGCAAG CCGACCANGT NTTCAATTAC TTCCACAAGN 110

SEQ ID NO:6106

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07261

SEQUENCE DESCRIPTION:

GATCTAGTAC TCCTTGATGA AGAATCGGGG CCTGTAACT TACCTCCAGC ACTAAAACAT 60  
CCTCANGANT TACTATAATG TGTCCAAAAT ATCACTGCAT ACAATATCTG NNATTTGAAG 120  
TGAAAAACTG ACTTNGTAT AGTATAAAAC ACAGGCTTTC ACAANTTTTG GTNTNGCTGG 180  
NTN 183

SEQ ID NO:6107

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07263

## SEQUENCE DESCRIPTION:

GATCCTGANG ATGATGATGA TGATGATGAT GAAGAATAAA TGGAATCAAA ATGCTAGCTT 60  
 NATTTGACAT NAATAAGTAA AATAAGTCAT CATGTNTTCA ACNCTGTAGT TCAGCTGTTT 120  
 ACATTGAATA ATNTN 135

SEQ ID NO:6108

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07264

## SEQUENCE DESCRIPTION:

GATCCTTTCC AGTTTAAAGCA GCCAATCAGA CCNCTTCACA TTTCTAAAAA AATGACCTAA 60  
 CTAAGCACC AGAGCTCGGA GANTTCCAGG GAAGCCAGAT ACCGAGGCGC AAATTTTITA 120  
 AAAAATAAGA GTCAGAAATA AAAATAAANG GTNTCTGTTG GTCAAGATTT AAA 173

SEQ ID NO:6109

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07265

## SEQUENCE DESCRIPTION:

GATCAATTGA AATCAACTGT GTTTTGTNTT CTCTATGTCA AAGTTTAGTT TTATATTGAG 60  
 AATGTAACT TATTGCTTTG TATCTNGGGA AAAAACTTT GTAAATAAGN TATAAAGTTT 120  
 CTTTGAGACA GTAAATTAT GATTNCTTGA AA 152

SEQ ID NO:6110

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07266

## SEQUENCE DESCRIPTION:

GATCTGCTCA CCTCGGCCTC CCAAAGCCTC AGCCTCTTAC AGTGTTGGGA TTACAGGCGT 60  
 GAGACACTGT GACCCGGGAC GATTTTCAAT CACAGTTTTT TGNTACGAGT GGAAATGCG 120  
 TATTATAAG AATGAAGTAG TACAGACATG ANTNTGTAGA AATCTCTATA ATCCTGCCAT 180  
 CCAAGGTTGG TACCTGTAA TGTGTATATC AGGGATGTGC AATCTTTTGG CCTNCCTGTG 240  
 CCACACTTNG AAGAAGAAGA ATCGNCTTGG GCCACGGATA NANTNNACT AACACTAGCA 300  
 ATACCTGGTG NGCTGAAANA GNNAGTTAAT TCNCNTN 337

SEQ ID NO:6111

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07267

## SEQUENCE DESCRIPTION:

GATCCTGTTA ATNAAACCAC AGACACCATA TATCCTTCTG CATCCTTTGG CCAATAAAAG 60



TTGCTGGAGA ACCAAA

76

SEQ ID NO:6112

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07268

SEQUENCE DESCRIPTION:

GATCAAGGAG AGTCACAGCC TTATTAAAAG TTTATTAAAC AATANTATAA AANTTTTAAA 60  
CCTACTTGAT NTTCCATAAC AAAGCTGATT TAAGCAAAC GCATTTTTC NCAGGAGAAA 120  
TAATCATATT CGTAATTCA AANGTTGTAT AAAANTATTT NCTATTGTNG TTCAAN 176

SEQ ID NO:6113

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07269

SEQUENCE DESCRIPTION:

GATCGACACG TGGGGGCGCC TGAGCGAAGA TAACCGTAAT AAATAGTAAC CTAACGGTCC 60  
AAA 63

SEQ ID NO:6114

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07270

SEQUENCE DESCRIPTION:

GATCAGNCCT CGCGCAGTGG CTCAAGGCTG TAATCTCAGC ATTTTGGGAG NCCGAGTGAG 60  
ACCTTGTCTT AAA 73

SEQ ID NO:6115

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07272

SEQUENCE DESCRIPTION:

GATCTTAAAT ATTCTAAAGT TTGTATTGTG ACTTCCAGTA ATGTAACTA TATGAGGCTA 60  
ATCCTCTTTT CCTCCTTTTT GTTTGTTAAC CTCATTTGGG ATAAGTGTA CTAGTATTAT 120  
TTTATTATG TAATAAAAAT ATATGTGAAA TAAAGTGTTA CTGGTAAAGG ACTTGTAAC 180  
ATGATAANTA TTAGCAAGTT GCATACAGAN TTAANAGNGN GGNGNGNANG NGGTGNGGTN 240  
TGN 243

SEQ ID NO:6116

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07274

SEQUENCE DESCRIPTION:

GATCAGAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC 60  
 ACCCTTTCGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 120  
 CNCCTCCCCC AGAGCCCAGG GTCTTGACA CCCCTNCCTG TAACCAAGGA ACACTCTGAA 180  
 ATAAAGGTGA ATGGCTAAA 199

SEQ ID NO:6117

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07275

SEQUENCE DESCRIPTION:

GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTNCTTGGA GTAAAAGTCC 60  
 AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGGAAAA ATTGGTACTG TATGTAGCAA 120  
 AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 180  
 TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCTCTGA TGTGATAATA AAGTGTTTAT 240  
 TCTGANCTCT AAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 283

SEQ ID NO:6118

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07276

SEQUENCE DESCRIPTION:

GATCACAGTT TTACAAATCT TAGTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60  
 ACAGTCATT TGGTTTAAAA AGTGACTATT TATTTATGGT AGNATATCAA TAATTTATTA 120  
 ATGTTAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180  
 TNATTGATTG GCAGTTCTGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240  
 TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300  
 ANGTNTATGC NTTCCAN 317

SEQ ID NO:6119

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07277

SEQUENCE DESCRIPTION:

GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60  
 CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCCTCT GGAGCTTCCT GTTGTTTATA 120  
 CTTTTTCCTT CCTGACATTT GTTTTACTT ACAGGTGTTT TGCTGGTGAC GGTAGCATT 180  
 CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240  
 TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTCTT 300  
 CTTTAACCAA AAAGGAAAGA CANGCGTTTG TGTGCACTTC CCGNCATACC TGTGTCTT 360

SEQ ID NO:6120

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07278

SEQUENCE DESCRIPTION:

GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC 60  
CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 120  
TTCATTCTCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 180  
CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTTCT TGCTCTATCA 240  
TTCTGTTTCA NTAAAGACAT TTGGAATAAA CGNGCATATC ATAGCCTGGA AA 292

SEQ ID NO:6121

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07279

SEQUENCE DESCRIPTION:

GATCCAATAA ATNTCCTTTT TTGCTTAAA 30

SEQ ID NO:6122

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07280

SEQUENCE DESCRIPTION:

GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTAA TTCATTTGTG 60  
TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 120  
TGAAATAAAG TTCTGTGTTT TCCCTGAAA 149

SEQ ID NO:6123

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07281

SEQUENCE DESCRIPTION:

GATCCACCAA TGGAATTAGA TGGGTAGAGT TGGGTTCTTG AGTTTTACCA CCACTTTGTT 60  
CCCACTGAAT TTTGTAACCT GCTGTGTTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 120  
GTGTCATCTC AGTCATTTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 180  
ACTTTTCAAT GAATTAAAT TTATTTCTGT NCTAAA 216

SEQ ID NO:6124

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07282

SEQUENCE DESCRIPTION:

GATCTCATCA ACCCTTTGAA ATGTTCTGGG CAGCACAGCT CCTTGGTCTG CATGGTTGGT 60  
 GTAAGTATAA TCANGTAGTG AAATTGTATG GTATATACCT ATATGCCANC AGTGTACACC 120  
 CGTATGTGCA GAATTTGCTA NTATAACCAT TTCAATAAAA ACCTATTGAA AAAGCTGAAA 180  
 AAANNANAAA NGNAGGAGGN GNGGN 205

SEQ ID NO:6125

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07283

SEQUENCE DESCRIPTION:

GATCTTTGCC AGGGGTCAAA GCGTCGGGAA GCTTGGGGTC CTCATCCTG ACGTTATCAC 60  
 CAAATTTNAG CTGACCATGC CCTGCTCCTC CCTAGAAATC AATATTGGAC CCTTTTGTG 120  
 AAGATTGGTC TCTGTGGTGT GATTCTCTNC CCAGGTGTCC CTTTCTCCTC CCCTAGTGTC 180  
 CTTAAGTCTT CCTCCACAGG GAACATCTAT TTGGGCTTGT ATGTTTAATA AAGTAGAAAG 240  
 CACTGGNAAA AAAAGAAANN NGNNNTGTGT NTGTTNNNN 279

SEQ ID NO:6126

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07284

SEQUENCE DESCRIPTION:

GATCCTAAGG AACATAAAGT TAATTAAAAA CTTACACCTA ATTATGTAAA TNGCCTTGTT 60  
 AAAGACATGT GATTTGTATT TNAGATGCTT GTTTCCTATT AAAATACAGA CATTCTACC 120  
 CTCAGTTTCT AAATGTAGAC TATTTGTTGG CTAGTACTTG ATAGATTCCT TGTAAGANAA 180  
 ANTGCTGGGT AATGTNCCTG GTAACANGCC TGTNANTATN TNANGN 226

SEQ ID NO:6127

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07285

SEQUENCE DESCRIPTION:

GATCCCATTT AGCCCCTGAA CATAATACCA TCTGCAGTAT TATAAAAGTC ATTTAGAAGG 60  
 TCAGGGGGAT AATCTAGAGG CAGGATTTTG GACATTGTGA AGGAAATGTG CTCCTTCTCA 120  
 GCTCACTTCA ATAACATTTT NCTGAGACTG AAGTTTTTTA GACAAGANTA AGANAACCTT 180  
 GCTTTNTCA GTATCACAT GTGANAGCTT TTGCTTTTGG TTAGGAAANG GTGTGGNTGA 240  
 CTCTACTGCG TGGNTGGTTA CATTTTGCTT TCCGTGNAAT TGCTCNGGAA ATGNTCNGGA 300  
 CATNCCNTTT NCCATTTGTG TGTCAGTGCG TATGGTNAN 339

SEQ ID NO:6128

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07286

SEQUENCE DESCRIPTION:

GATCTCCTAG GACCTAGTGG ACATCTGGNA TTAATTTAAT CTCAGGAAAA ACAAGANATN 60  
 AACCCAGAGA GAGTCTGGGT TCTGGAATTC AGCGTANTAC CTCCAGACCG TGGTGTCTGG 120  
 CCTCCATTTT TGTCTGTNAT TCAGCTCTGA CTTACAGCTG CAGTCACCTT TNCTATAAGG 180  
 CACCTGGGTA GAAGGGTGGA TGGGCTTCAC ATCAAATTTT TTNCTTCCTT TAGGGTGGGG 240  
 NATTGGNTTG GCTNTNTTTT GTNGTGGNN 269

SEQ ID NO:6129

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07287

SEQUENCE DESCRIPTION:

GATCTGTCCT CCAAATCCTC TATTAAACCT GATAGCTTGA GCACAAA 47

SEQ ID NO:6130

LENGTH:330

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07288

SEQUENCE DESCRIPTION:

GATCAGCCCT TCTCAGCCTC CCAAAGTGCT GGGATTACAG NTGTGAGCCA CTGTGCCCGG 60  
 TTCTGTGGCC TTTTCTAACA TTATCCAAGN NGCCCTAAGG TTCCTTATGA CAGGTTTGGG 120  
 GATTGGGAAA GTTCAATTTT ATTGTACCGC CAATGAAAAG GTGCTATATT TTTTCTTGA 180  
 ACCTNAAGGG CAGAGGCTGA ATTAATCATA TTCCTCAGCT CATTCCACAT TATCATGGCA 240  
 AAGCTCTCTT TTGCTTTATT TATTTATTCT CTNNTATCTT CATACTTAAT CTCATTCCAT 300  
 TCTCTGNCAT GGGCAACCAT NNNAATNGNN 330

SEQ ID NO:6131

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07289

SEQUENCE DESCRIPTION:

GATCTTACAT GAGCATAATC ATCCTTATAC TTCATGAGGG GATTATNAGT ACAATCCCCA 60  
 TTTTACTGTG TTTGAGTTAA AAACCAAACA TCCCTGTAAT TTAATTTGAA GATTCTTTAA 120  
 CAGATTGCAG CAAAGTTCAT TATAAACTG TTATGGTGTC TTCAAAGNCT TGATAAAANT 180  
 AACACTGNGA GAGANTTGGT CCATTGTAT GCTGTATTTC TATTACTTGC CAAANGGAAT 240  
 GGGGNTAGGA TTAACCTTGT TTCCATTCTC TTCNCATGGG TATCCATCCC CATGTTTANC 300  
 TGNCCACNCT GGGGGGCTCN GTTGTGTGCT GTN 333

SEQ ID NO:6132  
 LENGTH:21  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07290  
 SEQUENCE DESCRIPTION:  
 GATCATAAAT AAATGTTTAA A

21

SEQ ID NO:6133  
 LENGTH:331  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07291  
 SEQUENCE DESCRIPTION:  
 GATCATTTTC AAAAATTGCA TTGGGGCCTT CGTTATTTAC CATAGTATTT NCACTTTCAT 60  
 AGTTTGTGCA CCTTTTGTGTA CTGTGAACAG TTCAACCAGT GACCGACTTC TCTCTCATGC 120  
 TGTTTACCCC ACACACAATT TCCCACTCAA TTCTGAAAAT AAGAACCTGT TAATAGGTTG 180  
 GAAAGCTGTG TACTCTATTC ATATATTGTC CTTTCATGCT AGTGGAGAGT GGTGTCATTA 240  
 GCATCTNAAT TTTAGAGTTG TGNAATGATT TTNCCAATTA GGAATTGANT GTGTATTTNT 300  
 NTCCTGTTTA ATAAGNNGNG CAAATNTGNT N 331

SEQ ID NO:6134  
 LENGTH:40  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07292  
 SEQUENCE DESCRIPTION:  
 GATCTTAAAA CAAAATGAAA TAAACGTGAA AAGGAGCAAA

40

SEQ ID NO:6135  
 LENGTH:53  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07293  
 SEQUENCE DESCRIPTION:  
 GATCGTGAAT AGTAAGTATC ACTTCATAA ATAGAAAGTG TCAGAAAAAT AAA

53

SEQ ID NO:6136  
 LENGTH:336  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07294  
 SEQUENCE DESCRIPTION:  
 GATCTTGAAA GAGGTAAAAT AAACCTTCAC TGCTCCACTC CAGGTGAATC CGCCCACTCC 60  
 CACTGACCTA GTAGAATTTG TAATTTAATA CTTACCTTCT ATTTCTGAAA TCAGTTGTGA 120

ACTGTTGCCT TATGTTGAGA GGTTAAGAA CCTCAGTGAA TTCATTTTTT AAAATCTGCT 180  
 ATTCTGAGAA GCATTGAATG AATTCTTAAC AAGAAGNCTC ATCTGTAGCT GTTGCTGAC 240  
 TCCTATGAGC CCATAAGGGT TCTGTGCTTA GCATTAACAA ANTAAGGTTT ATAGGGTAAA 300  
 AGCCAATGTA TTANTTTTTT TTTGCATGGG GGGCNN 336

SEQ ID NO:6137

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07295

SEQUENCE DESCRIPTION:

GATCTAGGAC ACTCATATCC AGGGTGATTC TCTTCATAAG GAGGCATGGG CTGAGTCTCC 60  
 ATTTATAGGG GCTGTCCCCA TAGAGACTTC AAGCCACACC TTTCTAGGGA TTCAGGTTGC 120  
 ACATTACCTG ATTCTCACAG TTGATTTGAG CCTGCAAGAC TGTAACCCCA TCCCATTATC 180  
 ATGTTTTCTT CCTCATTTAC CTACATTAT CATTAAACCT TTGTGATTCA GCAA 235

SEQ ID NO:6138

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07296

SEQUENCE DESCRIPTION:

GATCCAGGAT GACTGTACAT CTCAGATAAA GGAGGCTCAG CGCTGGAAGG ACAGCTGGAA 60  
 GCAGTCCCTG CACACTATCC AGGGCCTGTA TGTGTGACCC TCCGCCCCAC CATGAATAAA 120  
 CACTTTCTTA TACAGACTCA AA 142

SEQ ID NO:6139

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07297

SEQUENCE DESCRIPTION:

GATCCGCCAA GCAGGGCAGT ATCTGGGTTA CAGCCACAGC AGGAAGAACC ACTGGAGAGA 60  
 CACTCAGAAG GACTTCCCTG ACATCTGCAC CAAGGAGAGT CTGGACAAAG CTAAGAAAC 120  
 TCCTCCACCT GCTTCTAAAA TGCCAGAAG CCAACTGGAC CNGTTTGTA TTTNGAAGTA 180  
 GGNGNTGGN GGCTTTAACC NCCAAAGGGT TCCTGAAGCC CNGGAACTTG GANTNTGGAG 240  
 GGGGTTNNGG CCTTANTGA GGGTTGGTGG GTTTCNN 277

SEQ ID NO:6140

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07298

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60

TNNCAAGGCA AGANCAAGCC TGCAATAAAT AATGAGACTT TGACATTCCT TGGCGAAGAA 120  
 GATGTCTCCT GCCCTAATAT GACTGTCAC T CAGCAATTC ANTTTTNTGT TTA CT TGATT 180  
 TANAANGGGA GGATAANTTG TCCTGANAAG TTTTTTTGTT TCCTTAACAT TTCANNGTTT 240  
 TCNCTGN 247

SEQ ID NO:6141

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07299

SEQUENCE DESCRIPTION:

GATCCCTGAT GGGATGCCTG AAACCCAAAA TACTCTTAAG TCTTGATTC TAGGGCCTTC 60  
 TAAGGCAAAA NATTGAGAGA CCCAAAAAGA GAAATATGT TTAGTAAAGA AAATATTNC 120  
 TTTGACTAGT TATGATGGTC ATATAGGGGA GANAAGGCAA ATTTTGGNAA TGTAAGATGG 180  
 GGACANTTAA TGTNTATNCN CTGTCCAANT TCAANAGGTA CAACNGAN 228

SEQ ID NO:6142

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07300

SEQUENCE DESCRIPTION:

GATCCACCTG TCTCTGAAA ATATAAAAAG ACAAACAGG TTTGCCTTGG CATCAGAGAG 60  
 CACAAAGATT AAAAGTTACT TTAAATTGC CAATATTTTG GGAGANCAAT AAANCTACAT 120  
 TTTTCCCTCT TCCATACTGG TAGATGCGAA ATTNATCTGT GCATGANAGG GTCACCTCTG 180  
 TNATCGTGCA ACAGNTTTGG TATTANNCT TNNCTGTGGT TTNCCAN 228

SEQ ID NO:6143

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07301

SEQUENCE DESCRIPTION:

GATCCTCTGA TATACAATTA GAGATATTTT AATATAGNCC CCAAGCATTC TGTGCATAAA 60  
 AGTTAACATT AGGCTGTGGT GCAGTAACCA TTAAATGTCG AGGCTCTATT TCGGAAATAC 120  
 ACTACAAATG TAAAGTACG TGGCTGTCCT CTTAAGNCAC TAGTAGAGCA AAGCCTTAAT 180  
 CATATCANCT TAATTCTGTT ACACAATATG TGTTTTTNA TATACTANCC ATTTCTNATG 240  
 GAANGTCCT GTGGGGNGCC CNTCTCTCG CCANGCCATC ACAGGCTCTG CATAACGN 299

SEQ ID NO:6144

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07302

SEQUENCE DESCRIPTION:



GATCGGGTGC TAGGACAAC TGCAGTCCAAT CCACCAGCTC TCCNTGCCCC TGTGTCTTAT 60  
 TTCAGACATG AGAATAACTG TACAGTGTA AACTATAAAG CGTTTTTAAT GGTGTAGAT 120  
 TGGAAATAAA GTATGTCATA TGAACAGCTA AA 152

SEQ ID NO:6145

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07303

SEQUENCE DESCRIPTION:

GATCCACCT GCTCAGGCCG TACACCTTAT GGGGAGCCAT TAAGGGGNC CATCTAGGCA 60  
 TTCTGGNTAC AGCCAGTGC TCATCCAGC GTATGCTCCN CTCTNTAGNG CAGCCTAAAG 120  
 NGTCAGCCAC N 131

SEQ ID NO:6146

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07304

SEQUENCE DESCRIPTION:

GATCTTCAGA GAAATAAAAC TTGAGTGCAG TAGTTTATTT GCGGTTTGGC TCCAGGATGC 60  
 AGGNGTGGGA AAGATGGTAG AGAGCCAGAA GAAAANTCAA TAGAACGGTA TTACGGCGNN 120  
 TGGNTATATA ATNCTTCCCN GAATTGTCTG ACTN 154

SEQ ID NO:6147

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07305

SEQUENCE DESCRIPTION:

GATCCAGTGC TATTCTGTCA CCAACCTAAG AATCCCAATT GCACCTTCTG TTTCTGACAG 60  
 TCACAGGTGA CAGCTGNGN TCTATAATAC AGACTGGTGT CTTAGAGGTA GGAATAATAC 120  
 ATGATTATNA AGCATCACCC TGCTAATACA TAATAATGTC TTTTATATT ATAAGNGATT 180  
 GAGTTTAGTT CATTNCAATA CATTTGTACN TGTA AAAANT GCAANGTNGA CCTNNGTAAT 240  
 CNTTAAATCG N 251

SEQ ID NO:6148

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07306

SEQUENCE DESCRIPTION:

GATCTCGGAG ACTCNGTCCA TTCTAAGATA CCATGTTTCC ATGACCCTAC ACACAATAGC 60  
 TACACAGGTG GAGCAACATG AGTCTGAGNA GCTTTGCACA AAAGANGCTT GTTTCCACA 120  
 AATGNANCTG GGGTGGTTAA CTTCTAATTG TACCCTGTCT TAGCGTTCAG ATGCATTGGT 180

## DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET  
COMPREND PLUS D'UN TOME.

CECI EST LE TOME \_\_\_\_ DE \_\_\_\_

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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## JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE  
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THIS IS VOLUME 6 OF 8

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## DEMANDES OU BREVETS VOLUMINEUX

**LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET  
COMPREND PLUS D'UN TOME.**

**CECI EST LE TOME \_\_\_\_\_ DE \_\_\_\_\_**

**NOTE:** Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

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## JUMBO APPLICATIONS/PATENTS

**THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE  
THAN ONE VOLUME**

**THIS IS VOLUME 7 OF 8**

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TCCTTCCCCA ATGTGACCAT CTNNNNATTC NAN

213

SEQ ID NO:6149

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07307

SEQUENCE DESCRIPTION:

GATCAAGATG AATNTAATGT ATAATCAGAA TCCTAGGTAA GTAAACAAAA AAAGGGTTTT 60

TTNAGAATC AAACCTTTGG GGATTGGGTG GTAAAGGGAA ATATTNTNT NCN 113

SEQ ID NO:6150

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07308

SEQUENCE DESCRIPTION:

GATCTGTGCA TCTGGCCAGC ACTGTGGTGA CATCCTTAGG AATCCATGGG GAGAGAGAAA 60

GCATTCAGGA GTTAGTGGGT CACGTTTGAC AAGGGCCAAT AAAGAAATAT GCAAAGACAA 120

AAANCAAGAA GNACATTGTC ATATTNCTA CCTTTGTTT ATATAAATTT ATNTCANTGA 180

TTTTCGCTT TGTAAATNG CAATGTATAT NNTATGCTAA CNTTTNCN 228

SEQ ID NO:6151

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07309

SEQUENCE DESCRIPTION:

GATCACAATT GTGGACATTA AAACAGAAAC TGTTACACA AA 42

SEQ ID NO:6152

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07311

SEQUENCE DESCRIPTION:

GATCCAGCTT ATNCTTTAAT TTTCAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60

TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120

GAGACCTGGG TGGTGA CTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTGAGT 180

GCTTGATTTT AGGTTTTATT TTTTATGAA TGTCCAAATC TGTGTTTCCC CCTGCCATCC 240

CAGACTNTGT GGCCAGTTNA AAAGTGTCTG GNNTGTGTTT ANCTCTNCCC TAANATNCTG 300

GAGNAGGGGT N 311

SEQ ID NO:6153

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07312

SEQUENCE DESCRIPTION:

GATCTNNGTG GGTAGCCTCA AGCTGGAGAC ATTGTCTGNC CTCACTGCCC ACTGGGTAGA 60  
 GACACCTGGA TGACATTTC GTACCCGCTG GCAGCTCCTC CCACTCATCC AGAGACGGCC 120  
 GGTGGGCAGG CGGGGAGAGC AGCTTTCCTT CCCTGGNGAG AACCGTCTT ACCTCAGCTC 180  
 CTAGGGNCTC CAGCCAACAA AGCTNCAGCA CGGTGACTNG GTGATGGGNG ACCAATNNCA 240  
 GAAGTAAANN GACTGTAGAC CNATATTCCN 270

SEQ ID NO:6154

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07313

SEQUENCE DESCRIPTION:

GATCAAATTC TAAAATAAAG TTGCCTGTTG TGACTTTAAA 40

SEQ ID NO:6155

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07315

SEQUENCE DESCRIPTION:

GATCTATACT TAACATATTT AAAATAGTGA TGATTGAAAT AACTGCAAGG TATAGATGNA 60  
 ACTGAAGGNT TTCACATTCC TTTTGTGTTT ATCATTGGA ATTTNCTGTA TTTANCTGNC 120  
 TAGAGANCAN 130

SEQ ID NO:6156

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07316

SEQUENCE DESCRIPTION:

GATCATATCA CTCAATGTGG CCATTAATAT TTCTGGAGAA GACACAAACC TATTATAAT 60  
 ACTTTTNAAG AATCCGAAGT GATAATAAGA NTGTTTTTAC ATTGAAAGTA ATACTTAAGT 120  
 GTTACATAA CATTCTGTAT GCACTCAAGA AAATAAAGTT TTGTTAATAC AAA 173

SEQ ID NO:6157

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07317

SEQUENCE DESCRIPTION:

GATCTCAGTT ACAGTTTTTT TTTCTTTTTT AATTCATTA TTTTGGGTTT TTGGTTTTTG 60

CAGTCCTATT TATCTGCAGT CGTATTAAGT CCTATTGCTA GAATAGGTTA CTNNANGAAA 120  
 GATTATATTC TGAAAGAAAA ATAAGTACA TTATATATAA CCAATTAATT TAANGTATTG 180  
 CCATTTAAAT TACACACTGN GAGCATGTCC TATGCAGACA ATAGATTTTN CCTGTNCAAN 240  
 NNNTTNTN 248

SEQ ID NO:6158

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07318

SEQUENCE DESCRIPTION:

GATCCAGCAG CGCAGGCAGG AGCTGGAGCA GTCGCTGGTT GTNCGCAACA CCTAGGAGCC 60  
 CAAAAATAAG CAGCAGGACG GAACTTTCAG CCGTGTCCCG GGCCCCAGCA TTTNCCCCG 120  
 GGCTCCAGCA TCACTCCTCT GCCACCTTGG GGTGTGGGGC TGGATTAAAA GTCATTCATC 180  
 TGACAAA 187

SEQ ID NO:6159

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07319

SEQUENCE DESCRIPTION:

GATCATAAAT CCCTGTCTAA A 21

SEQ ID NO:6160

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07320

SEQUENCE DESCRIPTION:

GATCAAACGT GCTTAAGAGC TAACTCGTGA CACTATGCAG TATTGTTTGA AGACCTGTTG 60  
 TTCAACCTCT GTCTCTTTAT GTTAACTGGA TTTCTGCATT AAATGACTGC CCCCTTGTTA 120  
 AA 122

SEQ ID NO:6161

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07321

SEQUENCE DESCRIPTION:

GATCTCTGAC TCATTGTGGC ATATGAGGTG TAAAATNTTG TCAAAAAGA ATCTGGTGTT 60  
 TAAACCAAAA TCACACTATG GTGGCATTAA ACCGTTCACT TTTATTCTAA ACNNNANCCA 120  
 NCGCN 125

SEQ ID NO:6162

LENGTH:41

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07322

SEQUENCE DESCRIPTION:

GATCTGTCCA CGACATGGAA AATAAACTGG ATTTTCAGAA A

41

SEQ ID NO:6163

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07323

SEQUENCE DESCRIPTION:

GATCCTATAC GTGAAGGAAC ATATTTAATT TCCTCNCCTT ATATTTCCCTG GTTAAAATAT 60

CGTCATTATA GTTAGCAATT TGGAATCTGG CTTACATTGG TTGATACAAA TAANTAATAG 120

ANTANNGCAA NATCAGN 137

SEQ ID NO:6164

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07324

SEQUENCE DESCRIPTION:

GATCTTTTTT CTATGCGTAA TCAGACATAC ATATATACTG CAGTGTATCT CACGTATTAA 60

TTTTAAAAA TCTTTGTTT TACTTAA 88

SEQ ID NO:6165

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07325

SEQUENCE DESCRIPTION:

GATCTCTGTA TTTGTNTTTC AACTAACAAC TAATTTNAAA TGTATTGTAT CTTAATNAC 60

CTGTNCTCTT AGATTGTNTT TTGCTAGTAA CCCTTACTCA GCTTCTGCCT TTGGGGCTTG 120

GACTAATATT GCTTGTATGG AACTACAGTA CTGTGACTAA ACATGGAGCT CAATGCAGCT 180

ACTGCTTACA ACTGCTTAAA CTTTGTAGTG TGGACTTCAT TTTTCTGT AATAACANCT 240

TATTAAATCC TNGGTGGTAT GGCGGTCCTG GAAA 274

SEQ ID NO:6166

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07326

SEQUENCE DESCRIPTION:

GATCATGTTC AGAAAGGGAC TCATTGGTC CCACTTTGTA ACATGGGAAG AGTAGAAGAG 60

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AAAATTAAT GTGGAATCA TAAATGCTTT TCTAACAGGG TTATGCTATT CTGTAACACT 120  
AAATGTCTGT CTTTCTCTT AAAAGATTAA GTTTTATTAA TTTTGCATA CATTCTCTA 180  
TTTGANTATA TCTTAACCAT TTTATGTTCC AAATTCGTTT TTTGTCCAAG ACATTCTATC 240  
AGANTTTTNC TTGCCTCTAT AAATCTGAAA ANTGGGTTCT AGAATGTCCC ACTTGCTGTC 300  
TCTNAGAGTN 310

SEQ ID NO:6167

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07327

SEQUENCE DESCRIPTION:

GATCCGCCCA CCTCAGCCTC CCAAAGNGCT GGGATNACAG GCATGAGCCA CTGCACCTGG 60  
CCTTAACCCC TCTTTAGATT GGAAAAATA NTTACAACCT TAAAAATAGC TTAGTGTGTA 120  
ACCCTTTGGT AAATAAAGA CCCTTTTATA ATGCACATAT TCCAACANG GTTAATATAT 180  
TTNGTGAGAT TAAACAAGGC TTGTATATGC TTGACCTTTC TTAANNTATG TCCATGTCAT 240  
ACTATTATGA NTGTACATTT TTATGAGTCA TNANTATTNT TTTCAAAANG CGCTNCAGGC 300  
CCNTGAN 307

SEQ ID NO:6168

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07328

SEQUENCE DESCRIPTION:

GATCAGAAAA TGTGTGACCT TTTTAAAGTT AAATTGTAA AAAATTTTAA CTATTAAACA 60  
TTTTAAATAT TAAA 74

SEQ ID NO:6169

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07329

SEQUENCE DESCRIPTION:

GATCTCAGAT GCTAGAAATA GTAGACAAAG ATGTTATTTC CCAGTGCAAA TAAAGAAATA 60  
AAGATAGCAA A 71

SEQ ID NO:6170

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07330

SEQUENCE DESCRIPTION:

GATCTCAATG TGCAAACTCC TTGGACTCCA GACCCCTGTC TGGTTGGCAC TCCCAGCAGT 60  
GTGTGGTTTC ATCAGGAAAT CTTGCAGCA GGGGTTTAGA TGGTTCCTTC AGGAGGTGGG 120

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NAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCNCTC 180  
 ACTTTCCCCT CACCCATCCC TTAAAGTGA TTGGCTGTNA GGNGCACAGA GGGTGGCAAT 240  
 TCCATCTGTN ATGGGNTCAG AAGGCATTNG CCGCCATTNT TGATTNACA TAAAACTGA 300  
 TGNAAN 306

SEQ ID NO:6171

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07331

SEQUENCE DESCRIPTION:

GATCTGTCTG TTGTTGGAAT TGAGATATTA AAATCCCCTA CTATTATAGC GTTCCTCCAG 60  
 TCAAA 65

SEQ ID NO:6172

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07332

SEQUENCE DESCRIPTION:

GATCTTCCAG CACCAAATTT AGATGGCCTC AAA 33

SEQ ID NO:6173

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07333

SEQUENCE DESCRIPTION:

GATCAAATGT GTGAGAAAAT CAATGGGTTT TAAAGACTAT TCTATGTCAA CTATAACATT 60  
 TAATTTGGGG ATTTCTGTCC CTTATAATGT CTACCTCATT TTGGATGGAA TCCTTGAGGC 120  
 CTGGTTTATT TTCCTTTNCC TTNCTACACA TCGCTGCTCA GAGTGATGAA TGGAGTTGTG 180  
 TTTTGAATAA AATATCTATG CATCCNTTGT TGAGCAAA 218

SEQ ID NO:6174

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07334

SEQUENCE DESCRIPTION:

GATCATGTTT TAACTAACTT CATTTTGTTG CTGAATCATA ATNNATGCTC TAATGACCTT 60  
 TTCTTTCCTA TCCCAACCCT GTGTAATCTG CTCTATTTAG GGCTAATTGT TCCTTGTCTT 120  
 GTATGTATGT AATGTGTCCT NGTNTTCTTC CTCCTATTN NTNCTCATAA AACTCCATCC 180  
 NNTTTN 186

SEQ ID NO:6175

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07335

SEQUENCE DESCRIPTION:

GATCCATTCA ACTTGTGTGT ATCAGTAGTT AATTNCTTTG TATTGGTCAG CATTCCATTA 60  
TTTGGAAATTT ATACAGTATG TTTATCCATT CACCTGTTGA AGGACATTGT TTCCAATGCT 120  
TATTACTAAT AAAGCTGTGA TGAACATTCA AA 152

SEQ ID NO:6176

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07336

SEQUENCE DESCRIPTION:

GATCTGTATT TAATGAGGAG GAGCCGAGGC CCCAGCTTCA TCCAGCTTCA ACCAATGCCT 60  
GGACCTGTCC ACCTGANAGG CCCCTGGGGC TCCCCAGCTG CTGGCCAGAC CCTGGCGCTG 120  
CCACAGTCCT GGCAC TGCCC AAGGCCATAC CTGNCTAGCC CTTTGGNTCC ATCCTGTGGA 180  
TGCCCACTCA CCCCTNAGAC TCCTNCTGNC CATGCTGTGG NCGGACTTGT AAGCAN 236

SEQ ID NO:6177

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07337

SEQUENCE DESCRIPTION:

GATCATGCCT GTGTTTACCC TCTAAGCTGA AGCTGCTCAT CAACGGTGAG ATGGCAAAAA 60  
GGTGGGTCCA GAAGAGGGGA AAAGAAGGGA GTCTGTGAAA ACAAATGCT GAAGANTCTG 120  
CATCAAATAA ACCCTTCCTT CCTTCAAA 148

SEQ ID NO:6178

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07338

SEQUENCE DESCRIPTION:

GATCTCCTTA TTGACCACAG ATTATTCCTC TGTTTCAGCAC TCCTTATTCT TATCCCTGTT 60  
ACAATTCTTA TTATGGTGCA CAAGCTCCAT AAATATTAT AAAACTGATA TTAATTGANT 120  
AAAATATTGT CTAGAGGTCT CAGTCATTCT TCAAA 155

SEQ ID NO:6179

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07339

## SEQUENCE DESCRIPTION:

GATCATCTAG ACATAATTNC TGAAGATGAA CTTTGGACC AACTTCTAAG TCACACAGCA 60  
 TCATTATCAG ATTTATTACA CAACGNCTTT TTNGTTTNA CTCTATTTCT GAGGAAAAAG 120  
 CCTTCCCGAA ATCCGTAATG ANTTNTCCA TGGTAACCCC TCTCCTGTTT TNACACAGNA 180  
 AAGTTTCTCT NGA CTGTN 198

SEQ ID NO:6180

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07340

## SEQUENCE DESCRIPTION:

GATCGCTGGT TTCCTCTGCA GCGCGAGGGC TCCGGCGACC AGAGGATTCT NCCCGGAAGG 60  
 CATTCTGCC GCGCTCCNG GGGCACCCCT CAATTGTGTA CTACGTCTT GTTTAGTGTG 120  
 TATCCGTGCC CACGTAGATG ATGTCTGTAA CGNAGTTTGT TTTGAAATAT GAGNATATGC 180  
 GGCTTAAA 188

SEQ ID NO:6181

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07341

## SEQUENCE DESCRIPTION:

GATCAGTTTA TTATTGATAC ATCACTCCAT TAATGTAAAG TCATAGGTCA TTATTGCATA 60  
 TCAGTAATCT CTTGGACTTT GTTAAATATT TTNCTGTGGT AATATAGNGA AGAATTAAAG 120  
 CAAGAANNTC TGAAA 135

SEQ ID NO:6182

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07342

## SEQUENCE DESCRIPTION:

GATCAGTTTT CCNAGTCTTT GGGAAACGGG TTGTGTTTTT TNCCCTTTGC CGTGTGGAT 60  
 TTCCGGTCCC GGCTGACACC TCCCTTCGTG TGTGCGNCCC TCCCCACCCC TGCCTTTGTN 120  
 TCGGTGCCCT GTGTCCGTTT TCTNATGTGG GGATGTTTGT GCTGCAGACA AAAAGAACA 180  
 NAAAAANTTT TTAAATACCA CAAAGATGGN ANAAAANGAC AAAANN 226

SEQ ID NO:6183

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07343

## SEQUENCE DESCRIPTION:

GATCGTCACA TGCCGGGGAG CAATGTGGAT GGCCTGGGGA CTCCTGGGTT TTCTCCCTCC 60

CGACTCCCTA ATAAACCCCG TGAACCTTGG AGCCAAA

97

SEQ ID NO:6184

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07344

SEQUENCE DESCRIPTION:

GATCACCTTN AGTNCNAGC AGGGACTAGG CTTGCAGGTA ANATAATGGG CCAGGGCACC 60  
 CAGTCCAGAA GGAGCAATGG CACCTGGGCA GTGCCAGGCC TTAAAGCCCG CTGCTCCTTT 120  
 NCGGTAGAGG AGAGGCCCAT CACTGGTGTG GTGGGGTGGG CTCTCCCTTA GGCTTGGGCA 180  
 AGGCAGCCAC CTGCCCTTNC TCTCCCTTAG TGTTCCTGG CCTCCCTGCC ATCAGGTTGC 240  
 TGGGAGTGA GATGGAGGGA TTATTGAGCA GAAAATNAGT TGGATGGAGN TAAACAGNTC 300  
 CCATCCCTGG GTAATGGATT N 321

SEQ ID NO:6185

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07345

SEQUENCE DESCRIPTION:

GATCAGCTTG GAAGCTTAAA GTCCAATCCT TACTTCGAGT TTGTTTTGAA AGCAAATTAT 60  
 GAATATNATG TTCAGGGACA AATATAACTT TTNCTAAAAA TGGCCATTGT TTATGAAATC 120  
 TGTATAAGTG TGTCTTATA CAAATTTNAG GCCATAAACA AGTGTAAGTT TGTACAATTT 180  
 CATAACATGT ATAGCTGAGT TTTTATACTT TATATGTAGG AAGCTAATAT AAAATAGTTA 240  
 TGTAACGTG ATTTTGGTTT TCAGTTATGT GACTTGTTTT TNCCACCNGA AA 292

SEQ ID NO:6186

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07346

SEQUENCE DESCRIPTION:

GATCCATAAC AGAGATNCAN AGAGGCACCG TGGAGTTCCA GGGTCATCGG TCAGCGAGGA 60  
 ACAAGGAGGG AAAGGTGTCT TCCTGCCCTT TGATGCTCAA CTAAGCATCT GTTCCCTAGA 120  
 AATACATGTG TCCAGGNNGN NTCCATGGGC TTTNN 155

SEQ ID NO:6187

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07348

SEQUENCE DESCRIPTION:

GATCTTNAGT TGTTTTAATT TTTTTTTTCT GCATCTGAAT CTGCATGATT TCCAAACCCT 60  
 GTACCATCTG AATTTTGCAT TTNAGCACTT GCACTATTAC TCAGCAGCAG TAACATGGTA 120

ACACTTAAAA TGGTACTCGG GGACCTCCAA AGACTAACT GNCANGCCTT CAAGGNGCCC 180  
 AGGGGTACGT TANCTTGTC ACGGCATGGT TTAATCCCTT CTTTACACTT GTGTAAATTT 240  
 CAGTTACTGG TCATAGNNGG CTTTCAATGT TGCCTGGCCT NTTATTANCN TGTTTATGGG 300  
 N 301

SEQ ID NO:6188

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07349

SEQUENCE DESCRIPTION:

GATCTTTATC AATATTCTGG ATTAGACAAC AAATNACCTT TCTGGGTGTT TCTTGTAAC 60  
 TATACTCCTG TTTGAATGTT AAACCTTGT GCTAAAGTTT AATTTAAGA TGTTTGAATG 120  
 TNCAGTTTAT GTATTGANC TACAATAAAC CAACCCTTTT NATATATCTG TNTNGTATAT 180  
 GATTATNGTN ACTTAATTNT NAN 203

SEQ ID NO:6189

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07350

SEQUENCE DESCRIPTION:

GATCAAAGCA GGTGGGGCTT TGGGATGTGA AGTGGGTCTT NACGCGGGGC CCCACAGACC 60  
 TGTCTCCGCG TGANTGCCTG CAGGCCCCCTG CGTCATTCTT CAGCTGCGTG CGAGGCCTCT 120  
 GGCTTGGAGA GCCTCCCCGC TGTGCACAGT TCTCTCTTG CCAGGGCAGG GCTTGGGGCA 180  
 GCACCAGGCT GGGGCAGAGG AGGAAAGCAA GAGGACAGAC CTCCAGAAGA GCAGCGGAGG 240  
 GCGGGTGAGG ATTTCCCAT ATACCAGTGT GTGTTCATCT ACCCATGAGG AATAAAACCA 300  
 TGCAGCAGCA TGCAAA 316

SEQ ID NO:6190

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07351

SEQUENCE DESCRIPTION:

GATCCCCAGN ACTGCAGCCG AGCCCCGGGC TTCCTTTCTT ACCATTCTGT ATGCTTCCAA 60  
 GGTGTGACCA TTCAAATAA CNNTATTATT AAGATTATTA ATAAAGATTT CTTTCTCAA 120  
 ACCAGGAAA 129

SEQ ID NO:6191

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07352

SEQUENCE DESCRIPTION:

GATCAGAATC AGAAAACAGG TAAACCTCAC TCACACATTT GGACTCATTT GAACAAAAAT 60  
 CTAGGCCAAA ATACTGAAAA GCCTATGTGT TTTTAAATT GGAAGTATAT GTAAGGTAA 120  
 TGCATTTAGT GAACGTGACT AACAAAGACT AATGTGCACA TTAACAGNTG TNCTTTTAA 180  
 GGTTTTATGG GAGGCTGTGC ATTGCTCAAA AGCTGTTGGG AACGCCTTCT GACCAGTTGC 240  
 CTTCAGAACT AGTTTNGCT GCTCANTNAA AANCCAGTGN NTTTACTCNN GGN 293

SEQ ID NO:6192

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07353

SEQUENCE DESCRIPTION:

GATCTGCATG TGTGACACTG ATTCTTTGGA AATAAAGAGT GGAAGCTGCA AA 52

SEQ ID NO:6193

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07354

SEQUENCE DESCRIPTION:

GATCTAAATT TAAAAATAG GAATGAATCT NTAATTGCA GCTTGTGGAG AGTATAAAC 60  
 ATTTGAGCA CAATATGCAG CACATAACTT TTCAGATTGT GTTGCATAG AAAAGGTAA 120  
 AATCAATTCT TTCAGTTACT GTATTGTTCA TTTCTTGTA AGGTCTTCCT ACATTTGAGA 180  
 CGAGACCTT TAACATAGGC TGCCTTAGTA ACAAATAAA ACAGATGTGT CATAAA 236

SEQ ID NO:6194

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07355

SEQUENCE DESCRIPTION:

GATCTAGAGG GNGGATTTC AGCCAGGGCT GCTAGACGGA GGCCTACTCT TCCATCTTTC 60  
 CTGATGGCAG GATGGCCTGG CCAGGGCCTG GAAGACAGAG ACCTCCTGCC TCCGCCTCAG 120  
 TAAGACGACA AGGAAAGGCA AATGCCCAAG GGAAAGAAAA GGAAGGCTCT TCTCCCAGA 180  
 GTTCCCATG CAGACATGAG TCGTGCTCA GTTCAGANTC ACTCCGAGA ACTCATCCCT 240  
 AATGCTGCAG ATTTGGGCTG GAACAGATTC ACACGTCTG TN 282

SEQ ID NO:6195

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07356

SEQUENCE DESCRIPTION:

GATCTTCATC TCTGTTTGC TCCACTTGTA TTCTCTTTC AGTAACTGGA TTAATGCTTT 60  
 GAGCCCAAAA TGAGATATAT TTNTAATTAC TGTAGATTAC ATGTTGTTTG GCTGGGAATA 120

CAATACAATA AACTTTATTT TGCATAATGC ATTTCAAA

158

SEQ ID NO:6196

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07357

SEQUENCE DESCRIPTION:

GATCTGGATT ACTATGTAAA TTCACAGNAG TACCGCTAAT ATAATTTTGT TTGCNTGTAT 60  
TANCATCATC TGGTCTGNAA ATGTGGGTTT TTATTTGGCA CATTANATA AAN 113

SEQ ID NO:6197

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07358

SEQUENCE DESCRIPTION:

GATCTGGAGC CACAGTCTGT NTATCTTCCA GTTCATCTCA GTCCTCGAGA AAGGCCCTNT 60  
AAATATGTAA CTTTCCCAT TNCCTTTAAC CATGGGTTGT GTGAGCCAGA AAGAGCTTTG 120  
AGAAAGATGG CTGCTTCCAC CAGGGNGGAG GCTTCTNGGT CTGCATGATG ATGGGGCCCG 180  
TTTCTGGCCA NAGGGTGGCT CTGGGAGCAG TTGTNCTGCG GGCTTGCTGG GGGCGAACTC 240  
TAACTGTTGC AGAAACAGNG CTTNATGGCT TGCTNNGGGT ACTTAGCTGG AATATTTTAA 300  
AGTGTCAGNT AAATGTGATN TNN 323

SEQ ID NO:6198

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07359

SEQUENCE DESCRIPTION:

GATCTGTATG TACTTTTAGT TGTATTAATA AAGTGACAGT GAGTGTCAAA 50

SEQ ID NO:6199

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07360

SEQUENCE DESCRIPTION:

GATCACCCAG TCTTAAGGTT TCAAAAAC TC TTTGACATTA GATTTACAA CTGCACAATT 60  
GANCCTTATT GCCTGTAAC TATTTNCTAA ATGCTCAGTG CTATTTATAT ACTACAGTAN 120  
TTNCCTGTGA AGNNGGCAGT TGTAAGNN 149

SEQ ID NO:6200

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07361

SEQUENCE DESCRIPTION:

GATCGGACTG GAACTGTTCC GCTGCNACCA GAAATTNATT TTCCTGAGTA AATTGCCGAG 60  
 AATTAAGAAT GAAGAGGGCC ATTTGCATCT CCTTAAATTA TTCAGTTACC TGCTTTATTG 120  
 CTCCATGTGG AAAACTTAAA ATTGTTAAGT TGTGCATTAC TGTATTTNAN CTTGTTGCTT 180  
 AGTTTCTNCA TGTTTATTTN CAGTAATGGC TGANAGTGT AACTGTNCCA TACTTTTNGC 240  
 ACAATGTNCT GCATAAGGTT ACCTGTGTAC AGAGTTTTAC TTTAGNTTAN CTAATAATATT 300  
 GCCTGGGGTTC AGTNTTNATT TCCATTNTN 329

SEQ ID NO:6201

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07362

SEQUENCE DESCRIPTION:

GATCTAGGAT GTGGNTGTGG AGTACTTAGC ATCGGAACTG CAATNTNAGG AGCAGGGTTG 60  
 TGTGTTGGAT TTAACATAGA TGAAGACGCA TTGGAAATAT TTAATAGGAN TNCAGAAGAG 120  
 TTTGANTTAA CAAATATTGN CATGGTTCAN 150

SEQ ID NO:6202

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07363

SEQUENCE DESCRIPTION:

GATCCAGGCG CCTGGGCAGA GCACCTGCTG TCTGCCCTGC ACTTTGAAGG GTTGTCTGTG 60  
 GGATTGAAAT NAACCAACTG CCGGCTGAGC GGAGGCTCCC TGGGAGTNAC AAGTTCCGTA 120  
 TTAAAATGCT TTCAGTGGNA AA 142

SEQ ID NO:6203

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07364

SEQUENCE DESCRIPTION:

GATCTATAAA ATTTCAAGTTT TAAAAAATGT GTTAAGGCTT TGTTTTGGC CTAACAGGTG 60  
 GTCTATAAAG AAGNAAGTTG TATGAGGTAA TGAGAAGGCT GTGTATCCTG ATGTTGTCGA 120  
 GGAGTGTCT CTATACCTTC ATTAGAAATA ATTGNTTTT TACTGCCTTC TAGTCTTCTG 180  
 TTTCCTTACT AATATNCTCT CTTGTNTTAT TACAGAAAGT GGNGTATTGC AATATCCTAC 240  
 TATAATTGTN TTGCNCTCTT TGTGTTNATC CCAGTNTNNG TNAGTNTANG CTTN 294

SEQ ID NO:6204

LENGTH:306

TYPE:nucleic acid



2153480

TOPOLOGY:linear

CLONE:HUMGS07365

SEQUENCE DESCRIPTION:

GATCCCAGCC CGGCCTTTGT GGGACTAAGG TGGCGCTGAG TGGGAGAGCA GCAGGCGATG 60  
CGCGAAAGGC GGGACTTGGG GGTTCCTGGAT GTTCCTGTGG ATAACCTCAA GGAGCACGGN 120  
ACCTGGGACA TGA CTGCCCC CAGCATTCTT TCTGGCGGCA GACAGNGTTT GTNAGTTCGC 180  
CAACATCCTG CTTTCATGNG AACAGTTTGC TGTTCGCTNA CAGAGCCTCC AGTNGTATAC 240  
TGAGTTGGTC ACGACCNTNA TTNCTTCGNN CCTACAAACA TNTCCCACTT TTCGNTTNTN 300  
TGGTTN 306

SEQ ID NO:6205

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07366

SEQUENCE DESCRIPTION:

GATCTTCAGT AAATATTTTG AAATGAATTC ATTTATGGAA GAATCAAANC TAGGTCAGAT 60  
TGTCCAAACC AGACTAAGAA ACTGCATAGG GTNTTTTATG AGGTNTTTAA TGACTCATCA 120  
GCNCCATTAT ANCTGANATT NCTACN 146

SEQ ID NO:6206

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07367

SEQUENCE DESCRIPTION:

GATCTCACTG CCCAGGCTGG TCTTGAAGTC CTGGCCTCAA GCACTCCTCC TGCCTCACCC 60  
TCCCAAGCG CTGAGATATA GACCTGAGCC ACAGCGCCTT GCCAGTTGTT TTATGTTCTT 120  
TATCCTTTTA CTGCTTGCC TTCTGTAACC TGGGTTGCAT TAAATTTACT CCTACTNGTG 180  
AGTAAATGTG AACCATAGCA ATAAATTTAG TCTATCCCCA GAACCTTCAG TAGCAAGGAC 240  
CNATATTNCT ACGGTATTG TNTGTGTCCA NANANAAATA AAATTACCTT NAAAAANN 298

SEQ ID NO:6207

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07368

SEQUENCE DESCRIPTION:

GATCATTAAA GATAAACATA TTTTAAA

28

SEQ ID NO:6208

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07369

01814

## SEQUENCE DESCRIPTION:

GATCCTGTTG GCAANGGGAA TGTAGAGCTT CCAGGGTGCA TTGCCCACTG TTCTCATTGC 60  
 ATCCCAGTCC TCCAAGTCAG TCTAGCCTTA CTGTACACTT GACAAGTGCT TACTCAGCAA 120  
 GTCCCAGACC CACGNCCTNT TATCTCCNAA GACTGGNTTT GGCCATGNCC TTCCTCATCA 180  
 GGCCTATGCG CANNANTATN TAGGN 205

SEQ ID NO:6209

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07370

## SEQUENCE DESCRIPTION:

GATCCATTTA ATATGTTATC CCCACTAATT AATTTTCGTA TATNATTTCC AATATTTGGA 60  
 AAGCTCTTTA TAGCCATTTG GTATTTCTTA TTACCCACCT CCTATTTTAA ATATTTATCA 120  
 GTCTAAACTT GTGCAGTGTA GTAAACATGC AAGTTGTTAT GCTTGAGCTG TATTACCATA 180  
 AGTNGCNTTT TANGTAAACT GGTGNNTTTG GGCCATAGAT GTTTTGTCTT TTTGTTTGAT 240  
 TTTNTNTTNC AGGCTAACTG TTNGNGGTAT ACATNTATTT NTCTGTTGTA CAGATTTGAA 300  
 NN 302

SEQ ID NO:6210

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07371

## SEQUENCE DESCRIPTION:

GATCCCCCAC ACCAGCGCCC AAGAAAGGAC CAGCGTTGCA CAGCCCGGTA GAAAGGGTTT 60  
 ATTTATGCGC AACGGTTCAC ACAAGCCTTC CTGAAATTCC ACTTTACAGT AAATAAAGCT 120  
 GTGCGTTTCC CCTTCCCATG CACAACATGCG TATCAATCTA CAACTGTCTA TTAAGTGTGA 180  
 AAAAATAGNG CGTCTCCCTT TTTGTCATCG TTCTGGTAAC ATTGGCGTA GCATCTGACA 240  
 GCACGGAGNT GCTCACTCCT GGACCGGTTA TTTGGTTAAA ACCCAAAATG TTAGGTCGGA 300  
 N 301

SEQ ID NO:6211

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07372

## SEQUENCE DESCRIPTION:

GATCCATTTA ACTATTCATC AGAGGTGCTG TAATTTTAAA TTGTCTCTTG TCTCCTTCAG 60  
 TTAATTTTCA GAATTAAGAA CATACCATGG GNAAGAAAAA CNCNAANCAN N 111

SEQ ID NO:6212

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07373

## SEQUENCE DESCRIPTION:

GATCCTGGAA ATNAGATGGG CCTTACTCTG TCGACTAAAT GAATAGCTAT TTTCTTGTC 60  
 TTTTAAAG TGCAACTCTT GCTTCATGCT GCTTAAGTTA CCAGATGAAT GCTGNGAAAT 120  
 AAGTAATCAC AGNCATTTTA ATACCATTTC ATTGCTGTTT TACGCGTGTT CATTACTTAA 180  
 CAAAAAATTA TCTTTTAGCT TTAAAA 206

SEQ ID NO:6213

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07374

## SEQUENCE DESCRIPTION:

GATCTAGCCT GCCCTGCCCTG CCTGCCCTGG GCGATGAGGT ACGGTGGGGA AGGTGCCTAT 60  
 TTTAGAGAAC TTTGTCACAG TATTAAAGTT CCCAGAACAA A 101

SEQ ID NO:6214

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07375

## SEQUENCE DESCRIPTION:

GATCTAGAAT GTAATAAAT TGCTTATAAA TGTCAGAGCA TTTTNAAG GTACAGTATA 60  
 TGGGATTGT NTCGTTTTTC CTAGCAGGGG AACCTTAGTT AATANTAAAA TACTACTTAT 120  
 TTGAGTTACT GNTACAGNTT CATTTAAGGC TTGTGTGCAA ATGTGGTCTC ANTCTTTTTT 180  
 CCCTCCATGA TTTTCCTATG TGCTTCCTCT GGCATTCACT GNGGTTTGG TAAANTAANT 240  
 TGCCNNTTAA NN 252

SEQ ID NO:6215

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07376

## SEQUENCE DESCRIPTION:

GATCAGGAGT ACCTCCCTCA AGAGTCGAGG GNGGTAGATT TCTACACGCA GAGGAGGTGC 60  
 TGACTCCTCA GGGCAGCCA GCAGTNGNNT GTTGCTTTN TAAGGGAGGG CCACTAAGAA 120  
 AGTTAGTGA TTGCAAAGTT GGTGCTGG TGGNAGTTAG ANCAGACCAA CATTTTATGC 180  
 CATAACTTTA NGAGTTCCAT AGGTGGCGGC GCAGTTCTTN CGNATCAATG TNTAACTTTG 240  
 NGGGGGGTGT TCATTTN 257

SEQ ID NO:6216

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07377

## SEQUENCE DESCRIPTION:

GATCAGACAT AACTTAGCA TCTTAATGGA AGAAAAATGA GGGGAACCTC AATTATGATT 60  
 TATTAAAGAC AATTCTATT ACACCCTCCT TTATGACAAG TGACATTTA GATGTAAAAG 120  
 TAAAANCTTT ACCATGCCTT TTTTTTTTTT NGTGGGCCTA CCTTNGGGGC NTNAANCCCN 180  
 GGGGNCCN 189

SEQ ID NO:6217

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07378

## SEQUENCE DESCRIPTION:

GATCTCGCAA TGTCTGCCCT AATATTTTAC AATTAAACCT TTCATATTTA TTATAATTG 60  
 GTAATATTCA TTAATTTTCC TGTCTTTTAA AAGTCTTGAT AGATTTGTCA AAGTATATGT 120  
 NCTTTTCCCT ATGCTGGTTT AGAAGTNCGA NATATCACTT CTAATAGTAA TTATGCTCAA 180  
 NTAGGTACAC ATATACATAC ATNTTCTCT CNCNCTTTAT ATACTTNTGT GCAATTGGCA 240  
 CTTTGTGACGT ATGTCATANN NNTGTCATNC CN 272

SEQ ID NO:6218

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07379

## SEQUENCE DESCRIPTION:

GATCCTCGGC CTCCCAAGT GCTGGGATTA TAGGCATGAG CCACCGTGCC CAGNCTAATT 60  
 TCTAATTAAT TAAA 74

SEQ ID NO:6219

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07380

## SEQUENCE DESCRIPTION:

GATCTCGTCT GCTCACCTTA GCTTTCTGCC TTGGCAGCAC GGGCTGCGGA AGAAAGCACG 60  
 CTGGGCCAGG AGGCAGGGGT GCCCAAGCCA CAGGGAGCCC CTGGGGAAGC CTGCTCCATT 120  
 CTTCTGGTGA CTTGGCGCT CTTCACTCA TCTCCCTGC CCCCTCAGGA ACTGGTGGCC 180  
 CAGTTCCAC ACCNNACCT CCCAGTCTCT AGNCTATCCA TCTGTCTGTG TATGGCCTGG 240  
 AGTCACTNCT TCCTCANGCC CCCAGGGNAA NGTGTGCTCA AAATAAAAAC CAGNGGNCTG 300  
 AAA 303

SEQ ID NO:6220

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07381

## SEQUENCE DESCRIPTION:

GATCCCCTTT CCCACATCCG TGCTGTGTCA TTGTTGCTCT GCTTCCTTTC AATGTGTCAG 60  
 TGCCTGGGGG GAGGGGAGGA GCACCCCTC AGCCCCCTG AACCTGACCA AAAGCCATGG 120  
 CTGTTGCTCC NNNCTTTGTA TGATGCAAAT GCTGAAATGT ACAAATCAA CCATGACAAC 180  
 AANGAAAAAG GCCTTGACATA GCAAA 205

SEQ ID NO:6221

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07382

## SEQUENCE DESCRIPTION:

GATCATAAAA ATGAAGGAAA ATGCCCAAGC ATATCCCCAA CCCCTCACCC CACAACCACC 60  
 ACCACCACAC ATAANCAAGT TGCTGACATA NNAGGGGGAC CTTTTTNANN 110

SEQ ID NO:6222

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07383

## SEQUENCE DESCRIPTION:

GATCGCATCT CATTGTTAAC TCTTTACTGA TATGTTTGTA AATACAGAAG TGAAATGTGG 60  
 ACATAAAATA GTTACGCTAT TTGGTTAATG GTACTAGACA ACATGTAATT AATGACATTC 120  
 AAAAATTTAT GGCTAGTGAT ATATATAANG TAAAATTTTC TTGCAGTAA AATATGCCCT 180  
 TNATTATNGN CGGGNGGCTA TANGGNCCA ACAGTTTGTA TGAAANTAGC TCCNAATCAT 240  
 ATCTNTNN 248

SEQ ID NO:6223

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07384

## SEQUENCE DESCRIPTION:

GATCCCTTTA CACTCTTCAA AAGTGNGAAC CCCAAAGAGT TTTCATGTAT GTGGGTAA 60  
 TCTATTGATA TTTTCTGTGA GAATTTAAAA ATTATGTAA AANAATAAGA NGAATGACTA 120  
 TTTTNCAAAA CAANANATGA GNTGN 145

SEQ ID NO:6224

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07385

## SEQUENCE DESCRIPTION:

GATCTGCTTG GTGAAGAGTT CAGGAAAGTA TATCAACAAA GGNGTGAANT TTGTGAAGAG 60  
 AAATNNTATC ATCAAAATTG GGTAAAGCAT AGNTTTTTTG TATGTTACCA CTAGATGTCA 120

GCATANCTN

129

SEQ ID NO:6225

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07386

SEQUENCE DESCRIPTION:

GATCAGAAAA CATTGATTTA TATTTTAAAA TAGGATATTG GAGCCATTGT CTTAGATAAT 60  
 TTTC AAGGCA AGANCAAGCC TGCAATAAAT ANTGAGNCTT TGACATTCCT TGGCGCGGAC 120  
 GATGCTCCTT GCCCTANTAT GACTGTCACT CAGCAATTTC AATTTTATGN NTACTTGATT 180  
 TAAANCGGGA GGCTANACTT GNTCTGAAAN GN 212

SEQ ID NO:6226

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07387

SEQUENCE DESCRIPTION:

GATCTTACTG AAGATGATGT TCCAGCAGCA GCGACTTAGC CCCAGGAGCC CAGTTTCAAT 60  
 GGCCTTGCTG TGTGGTGTTC CAAGTGCATT TAAAATGTGT GACACAGNAA CGGCACACTC 120  
 TTNCACATGC TTTTGNAGTA TTATAANNCA CTTTATTACA AATTTGTCTT NGCTATTAGC 180  
 AAATANAAC TATTATCATT CTTTATTAAC CCACCTNGGC CTTTTNNAAN CCTCN 235

SEQ ID NO:6227

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07388

SEQUENCE DESCRIPTION:

GATCTCACTC TTNCCCAAGC TGGAGTGCCG TGGCAAATC ACAGCTCACT GCAGCCTTGA 60  
 CCTCCTAGGC TCAAGCAATC CTCCTACCTC AGCCTCCCAA GTTGCTGGGC CTGTAGGTGG 120  
 ACACCANCAAT GCCCTGTGTA TTTTNAATTT TTTTATATAG AGTTGAGGTC TCGGTATGTT 180  
 GCCAACCTAG TCTCAAATC CTNGGCTCAC GGCTGTAATC CCCAGCTCTC AGGGAGGNTA 240  
 AGCGGCGGNN GGNTAGCTTA AGCCNAGGAN TNCGAAGNCC TGNCTTNGGN 290

SEQ ID NO:6228

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07389

SEQUENCE DESCRIPTION:

GATCCATGGG GCCCAGGNCT AGAGGGCATC CGAGGGGCTG GGCCTTGGCC ACAGCCTCTT 60  
 GGATGATGTC CTTGCTCCAC CACGCAGGCC CTTGCTTCTC CCATCAACGA GTCTTGGCCC 120  
 AGGGGACACT GACCCTCCCN CAGGGAGGAG AGAGGAGTTC CTTNCCTTTA AACGAGGGCT 180

2153480

TCCACGACCT CTAAGGGGTG GCGNGGAAGG GAGGAGGATG AGAAGATGNA GATTAAATAA 240  
AGGTATGTN 249

SEQ ID NO:6229

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07390

SEQUENCE DESCRIPTION:

GATCTATCTC AGGGCTTGT GTAAGAATGA AATGAAGTAT AAAGCCATGT AGAGCTTGTA 60  
GAATATGCCT GGCACTTTGT AAGACCTTAA TANNTGTAA CTATCTAANC ACANAACAAN 120  
CCNCN 125

SEQ ID NO:6230

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07391

SEQUENCE DESCRIPTION:

GATCCTAGTG CTCCTGTCTG GTCAGGGCCT ATCTTTATGT GTTCGTAAA CTTTAAACA 60  
TGAGNATTAA A 71

SEQ ID NO:6231

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07392

SEQUENCE DESCRIPTION:

GATCTGAAAA GTTATTAAGT TCAACTCCAC AGAGGTTCCCT AGGAGAATGT TAACAGTCCA 60  
GACCTTTTTC ACTACATCAA CCACGGATGA TTGGCATATA AAATCCTACT TAACCTTTAC 120  
ATAACTGCAA TACCAGGAAA CAAATATGTC AATAAAAGGA AACATCATTC AATTTTGGGA 180  
AA 182

SEQ ID NO:6232

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07393

SEQUENCE DESCRIPTION:

GATCAAAAA ACCATTGAGG CCAAGTNACC CTGACATGTG ACATCTACCT CCCGACCTAC 60  
CACCCCACTG GCTGGTTCCA GAACGTCTCT CACCTAGACC TTGCCTCCCC TCCTCTCCTG 120  
CCCAGCTCTG ACCCTGATGN TTAATAAACG CAGCGACGTG AGGGTCCTGC TTATCCCTGG 180  
TNNGGNNNCA GNTCNATCCT TGCATCANTG GGGAGGACGT GATGNGTGAG GAN 233

SEQ ID NO:6233

01820

2153480

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07394

SEQUENCE DESCRIPTION:

GATCAGCCTG TGCCACACTT CGCTCTTGAG GAGCTCAACG GTCTGGCAGG GCAGCAGGAG 60  
GCTTTCTGGG CTCTGGNCTC CACGGATGCG TGGGCAGNGG AATGTGGGCT ATGTAGTCAT 120  
AATAANTTAG GNCACAGAAA AAAAAANAA AAAANNCN 158

SEQ ID NO:6234

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07395

SEQUENCE DESCRIPTION:

GATCTCTTTT CATTTGTCAA CCTTTTCAGT AAAGCCCTCT GTTACATCAA A 51

SEQ ID NO:6235

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07396

SEQUENCE DESCRIPTION:

GATCAGCGAG AAGGACAAGA AGAANNTTCT GGACAAGTGT CAAGAGGTCA TCTCGTGGCT 60  
GGACGCCAAC ACCTTGGCCG NGAAGGACGA GTTTACGCAC AAGAGGAAGG AGCTGGAGCA 120  
GGTGTGTAAC CCCATCATCA GCGGACTGTA CCAGGGTGCC GNTGGTCCCG GGCCTGGCGG 180  
CTTCGGGGCT CAGGGTCCCA AGGGNNGGTC TGGGTCAGNC CCTNCCATTG AAGGAGGTGG 240  
NTTAGGGGNC TTTGTTCTTT TNGTATGTTT GTCTTTGNGN 280

SEQ ID NO:6236

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07397

SEQUENCE DESCRIPTION:

GATCTAAATA CTGTGTAAAT ATATAGAAAA ACGGAGACTC TNATAAGGTT TTTNACCTCT 60  
ACACTTGAAA GTGAGCTCTT ACAAGAACT AATCAGTGTT TCGTTATTCC ATATCAGTGG 120  
CTTTTACTGT CAACGNTTGT GTAAGCTNAC TTATCTGGCA AACTTTTCTT TTCCAGAANT 180  
ACTATCTATN TTACTNTNN 199

SEQ ID NO:6237

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07398

01821



## SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGGCCTC CCAGAGTGCT GGAATTACAG NCGTGAGCAC CGCGCCTGGC 60  
 CAAGNAAAAA TTATTAGAAC AAGTGAGGCA TCACACTCCT CTGCCATTCA GTCAAAAGTA 120  
 NGCACCAATT TATTAACACA AACATTACAT AATACATGAT ACAGGCGCAA TCTCGCTACT 180  
 GCTAGCACTA CGNNAATGTT GTTCTTGAC TATAACATTA AACTGTAAA TACTGACAGT 240  
 GAAATGCACC NATANNGGNN ACCTGTCATC ACNGGGNNN 279

SEQ ID NO:6238

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07399

## SEQUENCE DESCRIPTION:

GATCCAAAAA CTAATTCAA A

21

SEQ ID NO:6239

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07400

## SEQUENCE DESCRIPTION:

GATCCAAGTA CTCTCTCTCC TAAAGACACC ACCTTCCTGC CAGCTGTTTG CCCTTAGGCC 60  
 AGTACACAGA ATTAAAGTGG GGGAGATGGC AGACGCTTTC TGGGACCTGC CCAAGATATG 120  
 TATTCTCTGA CACTCTTATT TGGTCATAAA ACAATAAATG GTGTCAATTT CAAA 174

SEQ ID NO:6240

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07401

## SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCAAGA GGAAGAAGTC TACACCCAAG 60  
 GAGGAAACAG TTAATGACCC TGAGGAAACA GGCCACAGAN GTGGCTCCAA GAAAAAGAGG 120  
 AAATTCTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTGAAG CGGCGGTTGG CAAGAGCANC 180  
 TCCAAGAAGA TGCAANAGTT CCATAAAGCA TCCCNAGGAN GNTTAAGAAT GCAAATGGAC 240  
 CATTCTCTTG GNNGGTTNGG NCATACCCAT NAGCCCNAGG TGACATTTC CNTN 294

SEQ ID NO:6241

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07402

## SEQUENCE DESCRIPTION:

GATCTCGCCC TTACCCCGGG GTCTGGTGTA TGCTGTGCTT TCCTCAGCAG TATGGCTCTG 60  
 ACATCTCTTA GATGTCCCAA CTTGAGCTGT TGGGAGATGG TGATATTTTC AACCTACTT 120

CCTAAACATC TGTCTGGGGT TCCTTTAGTC TTGAATGTCT TATGCTCAAT TATTTGGTGT 180  
 TGAGCCTCTC TTCCACAAGC GCTCCTCCAT GTTTGGNTAG CAGTTGAAGN GGTGTGTGGG 240  
 TGGGCTNTTG GNGTGAGGA TGGAGTNTTA AGTGCCNACT NNCNNCTNNN ACCNN 295

SEQ ID NO:6242

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07403

SEQUENCE DESCRIPTION:

GATCTAATCC CTTCAGGAA GTGATAACAC TGGGAGTGGT AACAGAGGA GCAGGGAAGC 60  
 AAGGGCCAGC CCCTGGTTCT CCATCCCNAT GTGTTNGAGG GTGGGACCAG NTGGACCTGG 120  
 TCCAGGCCAG GCCTCATTCC TCCTGGNCCN GGCAGGGTCA GAGGGNGGAG GGGCNTGGTC 180  
 CAGGNATGGG TCCNTTCCAN N 201

SEQ ID NO:6243

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07404

SEQUENCE DESCRIPTION:

GATCTTGGCA GTTGATAAAA CGTAAA

26

SEQ ID NO:6244

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07405

SEQUENCE DESCRIPTION:

GATCGNTGCC TGGTTTGTCT TCTCTGTGTC CTGGAGCAAA GCCAGTTCCT AAAACTAAAA 60  
 CTCCATTCTA GTCTTGGGAA GAAAAGTTTC TACTCAGAAC TGGGGAAGGA GTGGAACCTTA 120  
 TGACTTGGGC CTCTAGGCTG TCTCTGTCCC CTCAGCTCCC CGACATGCAT TTA CTCTCTG 180  
 CCGTGGGTCT GCAGTCGCTG CAACCTACCC TCTCTGTGCC TCAGCCTTAC ACCCAAGCAG 240  
 TAGGTCTGTG CTCTCCCTGT CTCTAGGTCG NTGAGAGAGG TGCTTTTNTT CATAAACCT 300  
 TTGGGGTTTG GGATTTCCTC AGAN 324

SEQ ID NO:6245

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07406

SEQUENCE DESCRIPTION:

GATCCATTCC GGGCCTTCC TCTCCAGTC ACCCAGAGGG CCCCACCCC GGCGGNCCTT 60  
 TCTTCTCAA ATGTCCTCGG CTCTATACCG TGNCTGGGTC TTTTNTCTNT CTCTCTGCCT 120  
 GGAAGATTCC TTCTTTNCCC TTTTGTCTTG CCCACTACTG TTTACCCTTC AAGTTTCAAG 180

2153480

GTCAATGCAC TGTCTNAGAG AGGTTTTCCT GTGNTNGACC TGTTTTNNAT CAGGAAGGCT 240  
TGCTNNTTTC CATNAN 256

SEQ ID NO:6246

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07407

SEQUENCE DESCRIPTION:

GATCATTAAA CCTGGCTTGA GTCTCTGTTT TGGCAAA 37

SEQ ID NO:6247

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07408

SEQUENCE DESCRIPTION:

GATCAAGNTT GNTCTTCTGT GATATATGGG ATATNATGTT TTAAAGACCA TCTTGAATA 60  
CAATTAGAGA ACTTAGTATT TTGATGTACT AAGACCTATT TTAAGTTTAA TATTCTACTT 120  
TGCAAAANCT TTAATTAANG ATGTTATTTA AA 152

SEQ ID NO:6248

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07409

SEQUENCE DESCRIPTION:

GATCCTGCAT TAAGAAATTC AAAAATCAGT TAATCATCGT TACATGTTGT AAAAGTTGGA 60  
TACTGACAGT CTCTAATAGT TTATCATCCA ATNGCANGTA ACCTACAATT TTAGGCATAA 120  
ACGTTGATGT GTATAANCAAT GNATAACAAC CTANTGGCTG GTCACAGTGT TTTCNCAAAC 180  
TACAGNTCAC ACCANGTNTT TCTCCTNTTC CTN 213

SEQ ID NO:6249

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07410

SEQUENCE DESCRIPTION:

GATCTCCTCT TAAGCGGAAA AGAGATTGAC CTTCTAGCAG AGGCAAAGAA TGGAGTCTTC 60  
TGGGGGCAGC TGCAAAGCGT TCTCCCTAGG ACAGATGGAG CCTCCCTTTC CTCATCTACT 120  
CTGTGGGTGG TTTCAAGGCC CACGAGTCAA CATNAGGAGT TGTGCTGGTG GTATGTGTGT 180  
TGGAGGCTGG GCTGGCTGAT TCACAGTGAC GAGGATGTCA CTAATANCAN GTATTGCGAN 240  
TGNTGATACC TAATAANAGN CTTTTTTTCC CAAA 274

SEQ ID NO:6250

01824

2153480

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07411

SEQUENCE DESCRIPTION:

GATCACCATG CTTGAATGTC CTCTACTGCT GATTCTAACA TCCGTGTCAG TTTTGGACCG 60  
GTTTCAGTAG ATGGATTTTN CTCNNNGNA TGGGCCATAC TTTCTGCAT TCTTTGCATG 120  
CCTCATAATC TTTGATTGGA TGCCAGACAT TGTAAATTTT ACCTTGTTGG GTATTGGATA 180  
TTTTTGTATT CCTATAAATA TNCTTGNGCT TTGAAA 216

SEQ ID NO:6251

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07412

SEQUENCE DESCRIPTION:

GATCTAATTT TGTATGTGGG AATCTTGCCT TGCCCTGATT TCCAGACCCA TAGGCAGGCT 60  
TGCAGGCTGT AGCTGGGGAA GACCCACGC TTATNCTGGT GCCCTGAGCA AGCCCTCCTG 120  
CTCCACTATT AGGCAGAAGC ACCTGTTCTG CCACAGGAGG CGCTGTCTTT TGCTGGCAGA 180  
GCTCAGTTTC CCTTAAGGGG AAGTTCCTTA GGATTTAAGG CCTCATGACT ATCTCAAAAC 240  
CCATGTTTGT TTGCCAATAA AGNAAATAAA TAACTGTAA AAAANNAANN AACNACCANN 300  
NAAAAACAC NAACANCAN 319

SEQ ID NO:6252

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07413

SEQUENCE DESCRIPTION:

GATCTACTGT TTGCATGTAA GAGACCAGGN TATGTAATC TTATATTTTA AGTGTATACA 60  
TATTGTGTAT ATAACATATG GATATTAAAA ATGGGGANTT GCACATTAA A 111

SEQ ID NO:6253

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07414

SEQUENCE DESCRIPTION:

GATCCCAGGA ACTGTGGGCA CCCATTTTNT GTGTCTCCCA GCCNATTTCC ACTCCTAGTT 60  
TGTCATGGNT ANTTTTTGT CTTCCTGTG TGAGGGGNGC CATCAACN 108

SEQ ID NO:6254

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

01825

2153480

CLONE:HUMGS07415

SEQUENCE DESCRIPTION:

GATCACAACC ATCAGCATCA CGGCCACAGC AGCCAGTGT GGGGCTGCTG GCATCCCCCA 60  
GGCGGGTCTG GTCACCATGG TCATTGTGCT TACGTCGGTC GGCTTGCCCA CGGAAGACAT 120  
CAGGCTCATC ATTGCCGTGG ACTGGTTCCT TGACCGGCTT CGCACAATGA CCAACGTACT 180  
GGGGGACTCA ATTGGNGCGG CCGTCATNGA GCACTTGTCT CAGCGGGNGT GGAAGCTTCA 240  
GGAAGCTGAG CTTACCCTAC ACAGNCTGGG GAAACCCNTA CAAGTCCCTT AATGGNACAG 300  
GACGCAGGGG AGCATAN 317

SEQ ID NO:6255

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07416

SEQUENCE DESCRIPTION:

GATCGAGACC ATCCTGGCTA ACACGGTGCT GCGGGAGATA ACACTCCCTT GAAGCAGTGG 60  
AGTACAATCA AACATCTTGG CTGCTCCTGA AACNNGGTCC CACGNATTTC AGTCCGGCTA 120  
AGANCGAAGA GCTGGTAAAC CANTAANTTG GGTGGAGGCC GAGAGCTCGG GGCCGCGAGC 180  
AAGCCTCCGA CGANNTGGTC CCCTGGACCN NCNGGTTN 218

SEQ ID NO:6256

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07417

SEQUENCE DESCRIPTION:

GATCTNACTC ACAGAGGGAA GAACTTATAA TTCTTCACAG GTCACATAGA AGCATGANAA 60  
TTTGGGTTCA AGCAAGTAA TTCTAAATCA GAATCCATAC ATAAAGTGTT TGCAATGTCC 120  
AGTTATATCT CCATGATATT TNCTTTGTGG AAGTTGATTG TCCTTCCTTA CAATAAATTG 180  
CTTGANTTGT CAAA 194

SEQ ID NO:6257

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07418

SEQUENCE DESCRIPTION:

GATCCTGTGT ATTTCCCTGA GTCTTCTAAC ATATGAAAAT TCATATCTAA ATCAACAAGT 60  
GACTGTAATC TGGTACTATA AATACTAAAT AAACACTTCT TCATAACACT GTACCAATTC 120  
AGCTTTTAAA TTNATTACT TTGCTTTCCT GTCCTTTGCC AACTCTTAAC CTAGTTAATC 180  
CTAGTNCTGT TGACATTGGA CCAGGCTCAG TAAATAANCG AATGGATTTT CAGCCTTTTT 240  
TTCCCATCTG TNCCTGCTTT TANGTCCTCT GAATCTGCTT CTTTGCTTNC TGCTGCTTTA 300  
ATTTTANCAG TGNTTTTNGT CAAAACATAG GNTNCAGGGN CTNNN 345

SEQ ID NO:6258

01826

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07419

SEQUENCE DESCRIPTION:

GATCTGGGTT CTAGAGGGCA TGTGATGACT GTAAATGTTC ACTGGGTGGG TAGGGAGTGG 60  
TATCCAGTGT TCAAGTGCAG AAATCTTTGG CTTNGCTACC AGTTCCATAT GATGAGAAAT 120  
AAACGTTTCG TGAGGTTTTG TTTCATAAAA AGANNNNNAA AANNTCN 167

SEQ ID NO:6259

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07420

SEQUENCE DESCRIPTION:

GATCCACACT TTAAAGAAA TTCCATAAAT GTATATTTTG TATTATGTAT TATTCCTGG 60  
TCCNAAGAAA ATATGTGAAT TCAGTTCTAA CTTNNGGANT GTACTGTTTG TTTTCANGTT 120  
CATTGNAAAN 130

SEQ ID NO:6260

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07421

SEQUENCE DESCRIPTION:

GATCCGAGAT GGCACCATG TACTCCAGCC TGGGCAACAA GAGCGAAACT CCGTCTCCAG 60  
ACAAACAAAC AAANCAANAA CAAGTGTCCT TATNNGNATG GGTGTGTTN 110

SEQ ID NO:6261

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07422

SEQUENCE DESCRIPTION:

GATCTGGCTG TCTAGAGGGA TTCTACGACT GCGTGCTGCC GCCTCCCCAA GAGGCATTCA 60  
GGTTATTGGA GAACTAATCT CATCTCAAGG GGCCAGNCAC CAAGTCCCAA AGCCTACAGA 120  
CCTCTTTCCG CCAGGCCCTG AAACCTGGCC CCGTGCCAGC AGGATGACAA GCCCCAGGGC 180  
GNTCCTGATG AATATGGCTT GGAGATGNTG TACAANTTTT TATTNCCCTN TGGNTTTTGA 240  
GGNATGAAAT GATTGCACT TTTGAAAACC TGTTAACCGT AGGCCNCTN GGNCANTGAN 300  
GNNTGGAAGN 310

SEQ ID NO:6262

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS07423

SEQUENCE DESCRIPTION:

GATCCACTCG GNCAACCCAA CAGTTTACC AACCAACCCG GGCTCGGAAC TAATAGGNAA 60  
AGTAGACTCT TTGTGAAGAA ACGAGCCANT NNCTGGAACA CCCTGGTGGA AACCTGTTGA 120  
CANGCCCTN 129

SEQ ID NO:6263

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07424

SEQUENCE DESCRIPTION:

GATCACTTGA ATGTTAGGNT TCATAGNACT ATACTAATCT TCTCACAAAA GGTCTATAAA 60  
ATACAGTCGT TGAATAAAT TTTGTATCAA ANTGGGGNGG CAAATTNGAA GCTTCTCCTT 120  
AANCTGTATT GATACTGACT TGAATTCTT TCTANAN 157

SEQ ID NO:6264

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07425

SEQUENCE DESCRIPTION:

GATCTCCTTC TTTAGCTCAA GGTGCTGCA ANTTGGAGCT GAGCTGTCAG TGGAACGNGT 60  
CCTGGAATN ATTAAGCAAG GCGTCGTTGC GCTGCCCAAN GACAGACTGA AGAAATTTCC 120  
AGANTTGAAA TTCAAATATG TGGAAGNGGA GCAGCCCGNG GNGTTTTTAT N 171

SEQ ID NO:6265

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07426

SEQUENCE DESCRIPTION:

GATCCTACAT TTACAGACAG TTTTGTGATA ACCCTTTGCA TTGCAGCACC TAGTACAATT 60  
CCTTGGAAC AGCGTGGCTC AATAAATTTT TATTGAATGA ATAAATGTGG GCCCAGAAGC 120  
GTGCTAGANG AGTGCCTTTC TGGGCTACTN AAAAAANNA AANACNAAN AANN 174

SEQ ID NO:6266

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07427

SEQUENCE DESCRIPTION:

GATCAAAGAC TCCCTGGAGC GAGAAAACAG TTAAGCCAG AAGCAGAATG GAAGAGCCAA 60  
AAAGTACACA AAATGGACGC CATAANTTCT GAAATAAAG TGTATGATGT GTTCTGAGTC 120  
AAA 123

01828

SEQ ID NO:6267

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07429

SEQUENCE DESCRIPTION:

GATCTGGGCC TCAAATACC ATAGTAGCTG CTTGATAAAA TTCTAAAAAT ATCTGGTTCT 60  
CTATTATGTA AACACTATTA CAGTCACCAG TGTGTGAAGA CTCTTGAGTC TGGTTCTCAT 120  
ATCAGAGTCA TCATTTTCT TCCNGTGGAA TAAANTGCCT TGTGGNCTTC CAAA 174

SEQ ID NO:6268

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07430

SEQUENCE DESCRIPTION:

GATCTTTTCA CTGGCTGACT CTCCCATATC TGCAAGAGAT TCTGCAGGAA CTGGGTGTGC 60  
ACACGGTGTT GTAGCCAGTT CAGGTACTGN ATATTTAGGA TTTGGTGNCG TTCACTGTAT 120  
TGCTATATTT TTGTAGCTAA ATAAANTCA ATAANTTGT AAA 163

SEQ ID NO:6269

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07431

SEQUENCE DESCRIPTION:

GATCTCCAGT ACTTTGTACA ATGTATAGTA TATTAAATAC ATTTATGTGT AATTTTGTGT 60  
GTATTTNTAT ATGGTATAAT TAAATNATT ACATTTATGT GATTGTAATT CACAAAANGT 120  
ACTACTTACT ATATNCTGTA GNGTGTGTTG TGAATGTNTT TACCNGTGTG TGAGCATTAT 180  
GGNGTAGGGN TN 192

SEQ ID NO:6270

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07432

SEQUENCE DESCRIPTION:

GATCTTCTTT TGTAATGTTT TTCATGTTAC TGCCTAGGGC GGTGCTGAGC ACACAGCAAG 60  
TTTAATAAAC TTGACTGAAT TCAAA 85

SEQ ID NO:6271

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS07433

## SEQUENCE DESCRIPTION:

GATCCTAGTG AGGGATTGAT GAATGTTCTA AAGAAAATTT ATGAAGATGG AGACGATGAT 60  
 ATGAAGCGAA CCATTAATAA AGCCTGGGTG GAATCAAGAG AGAAGCAAGC CAAAGGAGAC 120  
 ACGGAATTTT GAGACTTTAA AGTCGTTTTG GGAAGTGTGA TGTGATGTGG AAATACTGAT 180  
 GTTCCAGTA AGGGAATATT GGTGAGCTGC ATATATAAAT TTGACAGATA GCTATTTACA 240  
 TAGCCTTCTA AGTAAAGGCA ATGAATTCTC CATTCCTAC TGGN 284

SEQ ID NO:6272

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07434

## SEQUENCE DESCRIPTION:

GATCAGTATT AACATCCAGG TTTTGATTGT TGTANTATGG TTACCTGGTA GATTACCTTT 60  
 GTATATAGGN AATAGACACT GGAATAGTAA GGNGTAGTGG GTCAAGATGT CTGCAACTTA 120  
 TTGTTGAGAA TCACTCAGAA NTGGGNAATC TGATATAAGG NCAAAANTGGG AGCACTGTGG 180  
 CCTNTTTTNN CAACTTTTGT GTACATCTGN N 211

SEQ ID NO:6273

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07435

## SEQUENCE DESCRIPTION:

GATCTCATGA AGTCTTCCTT GGCCCAACCA GGCAGATGCC CCGGGCTCCA GTGGGGGGAG 60  
 GGGTCTGGGG TCTGGTCCGG GTTCCCNAAT TTCTCTTNN CCCANATCNC TATTTCTACG 120  
 CAGTGCGNAT AAAATTTGGA NTCGACTAAA ACCCTTGGTG CCCNGAAAAAN 170

SEQ ID NO:6274

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07436

## SEQUENCE DESCRIPTION:

GATCTGCCCC CCTCGGCCTC CCAAAGTGCT GGGATTACAG ACGTGTGCCA CTGNGCTCGG 60  
 CCTCAGATTC CATATTTNAA CACCAGCTGA TTGAGAGAAG GGGAATNAGA AGAGCTGGAT 120  
 GAGTTTAAAT AACTTTNATT GTTCAGATTC CTGAACAGGN GTTGGGATAA TGGCCATCTT 180  
 TNCTTTCCTA TCCTTCCCCC CCTCACTGTG AAAAAATAACA GTCCACCCCA AGTCATACAC 240  
 TGGACCCAGT GCCTGCGGGG ACAGGNCCTGT GGGTTTCTTG GTCACACCTG TGTTGGTGNT 300  
 N 301

SEQ ID NO:6275

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07437

SEQUENCE DESCRIPTION:

GATCCAAAAA ACCATTCNGG CCAAGNAACC CTGAAANGNA ACATCTACCT CCCGACCTAC 60  
 CACCCCACTG GCTGGTTCCA GAACGTCTCT NACCTAGACC TTGCCTCCCC TCCTCTCCTG 120  
 CCCAGNTCTG ACCCTGATGC TTAATAAACG NAGCGACGTG AGGGTCCTGA TTCTCCCTGG 180  
 TTTTNGGGGG GNTCCATN 198

SEQ ID NO:6276

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07438

SEQUENCE DESCRIPTION:

GATCTCTACT CAAAGATGTC TTGCAGTTTA TGAAGTGA TGTAAGTCA TGACTAACAT 60  
 GATGACATCG TTATTAATA CATAAACTTT ATAAAGCTTA AA 102

SEQ ID NO:6277

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07439

SEQUENCE DESCRIPTION:

GATCTTAATA CCTAATTTCA TCATTTCTGA AAATGTACTG TTTTAGAATG TATTACAATA 60  
 TCAATGTGAA TATCTTGAAT CCTGTTACAA ATCCTGCACT GTATTAAACA TGTAATTA 120  
 TTGTTGTCT GATTAGCCAA TCTCACCACC CAAATGGGGA GGTATACATG TTTGANGAAC 180  
 TGTGTAAGTC AGTAATTGAT TTGTNCTGAT GTTGTAAGTC ANTAGANGTG TTTTGGGAAG 240  
 NAGCATGGTG TGTGAGGCAG TGTCTGTCCT TTTGTGCCAG CTCTGTATGN TGTTTGTNGG 300  
 CCNTGTTTGT AGGCCTGN 318

SEQ ID NO:6278

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07440

SEQUENCE DESCRIPTION:

GATCTCGCCA ACAGCTAGCT GCTTAGGAGT ACCCCCACGA TACGCACAGC ACACCACTGT 60  
 CCCTTCACTG CACTTTCTTC CTGCCTTAGG TAGTTGGGCT TGCCCACCCT AGTTTGCTTT 120  
 TGTAAGTGGT TGGCAAGGT AGAAGGCCTC GGCCTCTCTG TNATGCTGGG AAGTGCCTAC 180  
 TCTCTGGGCC ACTGCTGCAG AGGCCGTGGC ACTTGTNATG GGTGGGAAG ACCCAGCCAT 240  
 CTGCAGCAGA GGCAGCCTAT TCCCATTGCA AGGNGNGGAN TGAACGGAGT AATTATTCTA 300  
 CTNTTCTTTT TACATAAATA N 321

SEQ ID NO:6279

LENGTH:290

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07441

SEQUENCE DESCRIPTION:

```
GATCCTGCAC GTCCGCAAGC CGGAGAAATA CCAGCTGCAC CTCCACGAGA GCTGCGTGCT 60
GTCCCTGAAG TTTGCCTCCT GCGGACGGTG GTTTGTAAGC ACCGGGAAGG ACAACCTGCT 120
CAACGCCTGG AGGACGCCGT ACGGGGCCAG CATTTTCCAG TCCAAGGAGT CGTCCTCAGT 180
CCTGAGTTGT GACATCTNCA GAAATAACAA ATACATTGTN ACAGGCTNGG GGGCCAAGNA 240
GGGCACCGTG TATGNGTNG TNTNCTTNGG CCATTNNCCC NTTCTGTNN 290
```

SEQ ID NO:6280

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07442

SEQUENCE DESCRIPTION:

```
GATCCAGTCT NTGGTATCAT GCTAGTNCTG ACAGGGCCTT GATAGTCTAG AGTTGGAAAA 60
GATGGTAAGC TTTTGTNAGN GTTTTAACAT TTNCTTGATG AAACAATAAA AAGAGGTAAG 120
CTTTTNCCTN 130
```

SEQ ID NO:6281

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07443

SEQUENCE DESCRIPTION:

```
GATCCAGTTT TGTTTGGGAC CAAAAACCAG TATTGTACAA AGTATTAAGC ATATATTTN 60
ATATTTACTA AAATNGACTG TGGTGACTTT GGATAATAAG NAAAANTTTA ATATTAAANC 120
CATGTTTATT ACAGTATAAT TAACATGTTA AACCATGGGG NTAAATGCCA TCANTAAAAA 180
ATTATGNCAT NN 192
```

SEQ ID NO:6282

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07444

SEQUENCE DESCRIPTION:

```
GATCCACCCC CTGCCGCAA AACATTGCTC CTAAGTCCAC CGNCTGTCCC AAAACCTATG 60
NGANCTAATG ATAATCCCAC CACACTTTAC TGACTNTNTT TCCAGACTCA GCCCGGCTGN 120
ACCAN 125
```

SEQ ID NO:6283

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

01832

CLONE:HUMGS07445

## SEQUENCE DESCRIPTION:

GATCTGAGTT GCAGCTCTGC ACCCTAAATC ACACCCTGGG CATTGTCTGG GCTGCAGGGC 60  
 TGCCAGGTTT TGTACTTGTG TCCAGCTATG GCCCTGGNTG CTGGAGCTGG AGGGTTTTCT 120  
 GTGCTCAGAC TGTAAGCTGT AGCTCTTGGC CTGTGTAGAG CCCCCTCCTG TGCCCTCAGT 180  
 GGCTGTCGTT TGTTAACATN ATCAGGAAGA TGGGAAAGGT CAGGCAGNAT TTTCTGNCC 240  
 TACAAAGGGN GGNNGAGAAA GGACACAGTA TTTNAATGA NTTTACCATA TATCTTTGGN 300  
 N 301

SEQ ID NO:6284

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07446

## SEQUENCE DESCRIPTION:

GATCCTTGNT TTCTAAAAGC CAGTCCTNCC CTNCAGCTTT CCACAGTTTC TGTAAATGTT 60  
 TAATACTTNT ACAGTCAATG GCAATTTTAA ATATATATAT ATAANATN 108

SEQ ID NO:6285

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07447

## SEQUENCE DESCRIPTION:

GATCTGGGGG AAAGGCTGCC AGGGCCAAGA GGCTCGTCTC ACTCCCTGCC CTGCCATTTC 60  
 CCGGAGTGGG AAGACCTGA GCAAGCAGCA CTGCCTTCCT GAGCCCCNGT TTTCTCATCT 120  
 GTAAAGTGGG GGTAATAAAC AGTGATATAG GNGTGCAAA 159

SEQ ID NO:6286

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07448

## SEQUENCE DESCRIPTION:

GATCACTTGA CTCTTGTAAG CGGACCTATA CTCAAAAGGC TTTGGCACAC TGTCACGNTA 60  
 TTAGTATACA AATGTGCATT TGTGTTAAG TTAAANTGAG GTNTGCNGGG TAAACTGCNA 120  
 ANTAN 125

SEQ ID NO:6287

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07449

## SEQUENCE DESCRIPTION:

GATCTACAGT AATTTATTCT NTCTAAAAGT AAAGCATTTT CAAAACCTCAG TATTTAAACC 60

AAA

63

SEQ ID NO:6288

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07450

SEQUENCE DESCRIPTION:

GATCTTTTCC ACTGGNCTAC TACCTGACCA TAAACATGTC TGCATTGAA TTCTCTAAAC 60  
 CCTAAATCTG TGTCTATGAA AAATACAAAT GACTATTAAA TAAA 104

SEQ ID NO:6289

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07451

SEQUENCE DESCRIPTION:

GATCTACCCA CCTCGGCCTC CCAATGTGCT AGGNTTACAG GCATGAGCCA TGGCGNCCGG 60  
 NCAAGTTTCT ATTCTAAAA TAAAGAGGTT ATACATCTAA NTTACAANTC GTGGCCAAAA 120  
 NGN 123

SEQ ID NO:6290

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07452

SEQUENCE DESCRIPTION:

GATCTGCCCC NCTCAACCTC CCAAAGTGCT GGGATTATAG GCGTGAGCAC CGCCCCCAGN 60  
 TGATTCAGG CGAATTCTTG TCTGATGGC GGGCGAGGGT GTGTTCGTGT GATGGGTTGG 120  
 NGTGTGTGTG TCTNNGTACA CAGATGATGT GTTTCCCTT CAGCTTCTTA CGTTTCTGA 180  
 GCATCCGTTG TGCCTTAACA TTTTCTGNTT GTCCTTTGGG NCAAGCAGT ATTTACTNA 240  
 TNCTTTGAAT GTTCTCATT CATTNTATCA TGTGACTTAT TAAAANNAGN TTNTAN 296

SEQ ID NO:6291

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07453

SEQUENCE DESCRIPTION:

GATCTGATGG ATTAATAAGG GGTNTCCCN ATTGCTTGGC TCTCATTCTC TCTTGTCTGC 60  
 TGCCATGTAA GATGTGCCTT TTGCCTTCCA CCATGATTGT NAGGCCTCCC AGCCACATGG 120  
 AACTGTGAGN TCATTAAACC TCTTTTCTT CATAAATTAC CCAGTCTCGG GTATGTCTTT 180  
 ATCAGCAGTG TGCAAGNNGG GNGNTACAC CACTNCTCTA ACTANNTN 228

SEQ ID NO:6292

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07454

SEQUENCE DESCRIPTION:

GATCCTGTGG TCAGAGGCCT CTTTGGCAGT GTNTTCTTAC CCTTAAGNAA GGTCATGAAA 60  
TCCAGAAGGG GCAACCTTTN CAGGAGAGCT TTGGAGTCAT TTCTGTGTGA GNCACTATTG 120  
CATAATCCTG NCAGNTTGCT TTTATATTTA AGGANTGATG TTACTIONCA ACTGAN 176

SEQ ID NO:6293

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07455

SEQUENCE DESCRIPTION:

GATCTGACTG CTGGCTATAG GATTTTGGAC TTAATGACTG AAATTGCAAA TTGTCCTTTT 60  
TCTTGGCATT ACAGATTTTG CCAAAATAAC TTTTGTATC AAATATTGAT GTGTGAAAGT 120  
GAAGGAGCTA GTCTGCTGAA CCAGGAATAG TTTGAGATAT TGAAGTGTCA TTTTGNACA 180  
TTTGAATACT TTGCAGGCTG GCTTTGTATA AACTTATCCT CNGGNNNCCT ATATGTTGTA 240  
AATATNTAGN CCATAATTCC ATTATAANTA AANCCTATAA ACTATTCAAA CNAANANCAA 300  
ANAACANANN 310

SEQ ID NO:6294

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07456

SEQUENCE DESCRIPTION:

GATCCCAAAA AGTTTCCTTC TGCCCTTTTT CAATNCCTCC TTCCCGCCCN TCTGCTTTTG 60  
TCATTATATA TTACTIONTGA TTTCCTAGAA TTTCATATAA ATGGAATCAT ANAGTATCTA 120  
CTCTTTGTTG TTGCTGGCT TCTNTCACTC AGCATAATTA TTTTGAAACT TATCTATGCT 180  
GNTGTGGGTA TCAGTAGCTC ATTANCCNAT TGTGCTGAG TAGTNTTTNA TTGTATGANN 240  
GTGCTACACG TTATNCGN 258

SEQ ID NO:6295

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07457

SEQUENCE DESCRIPTION:

GATCTTAATA AATAATACCT TACTGCTTAA A 31

SEQ ID NO:6296

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07458

SEQUENCE DESCRIPTION:

GATCTATGTA CAATTTAAT AAAATCCTGT CCATGAAA

38

SEQ ID NO:6297

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07459

SEQUENCE DESCRIPTION:

GATCACCTAC TAAGANGTAC TTCCTACNTT TCATTCTTTC TTTATAAGAA TTAATTAANT 60

TTTAATTGAC AAA

73

SEQ ID NO:6298

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07460

SEQUENCE DESCRIPTION:

GATCCACCCA CCTTGGCTTC CCAAAGTGCT GGGATNACAG GCATGAGCCA CCGCACCCGG 60

CCCTATCTCA AGCTTCTTAA CTGCACCTGC TAAATCCCTT TTGCCATGTA AGGTAACGTA 120

CCAACGGTTT CAGAGNTTAG GNTGTGGNCA TTTTGGGGGG CTGTTTTTCT GACTGCAATA 180

CCTGGTNTCC AGTGAATCCA TGTTAGTGG AGGACAACAT TTGAGGCACT TACATGGATN 240

CTAGGGGACA TNTATGTGAN TGTTAGGCAN AAAGTGCTGC CTNCANGNCA NGCAAATACC 300

NATTNAATAT N

311

SEQ ID NO:6299

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07461

SEQUENCE DESCRIPTION:

GATCAAAAAA TAACTATAAG TATCCTCAGC CAAGTAGCCC ATGCCGCTGC TCTGCCTACG 60

GNGTACTCAT CTTTATTCTT TTAATTTCTT AATAAACTTG CTTTCAATGT ACAA 115

SEQ ID NO:6300

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07462

SEQUENCE DESCRIPTION:

GATCCTACTG CCTCGTCTC TCAGAGTGCT GGGATTACAG NNGTGAGCCA CCACAGNAAG 60

NCACAAATAG CGATTTTATC TACTACCACC AGAAATCTTC TGACATACTG TTTTACCGCA 120

TGAACTATTG TTTTCTTTAT AAATTCCTTA ACAAATCTCT GTTGATAGA ATACTGTTGG 180

2153480

TTAAAATATA TCAGCAGCTA ATAGCTCATT TTAAATAGAT TCTGAAAGTT CAAGNATTTC 240  
AGGTTGCCAG NCACCNNTAT ACTCTACANA ATCAGANANG GCTCATTCTT GNTNCTNAC 300  
ACAACAAANN 310

SEQ ID NO:6301

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07463

SEQUENCE DESCRIPTION:

GATCAGGGAT GTCCAATCTT TTGGCTTCCC TGAGCCACAT TGGAAGAAGA ATTGTCTTGG 60  
GCCGCACATA AAATATGCTA AACTGACGA TAGCTGATGA GCTTAAAAA AAAAAANTG 120  
CANGAAAAAT CTCATGTTTT ANGAAGGTTT NCAGNTTTGT GTTGGGCTGC ATTTAANGCT 180  
GTNCTGGGCT GCNTTGGNCC CGNGGGCTN 209

SEQ ID NO:6302

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07464

SEQUENCE DESCRIPTION:

GATCATAGCT CCTGGTAACT GTGGACTTGA TAGATTTNAG GTACCTAGTT CAGAACTCCC 60  
TAGTCACCAT CTCCAAGCCT GTCAACATCA CTGCATATTG GAGGAGATGA CAGTGGTAGG 120  
ACCCAAGGAA GAGATGTGTG NCTGANTAGT CGTCACCATA TCTCCAAGCT TCCNGGCAAC 180  
CAGTGGGAAA AGAAACATGC GAGNCTGTAG GAAGNGGGAA GCTCTTCCTT GGCANCTAGG 240  
AGGNNTTAGC CATTCTCTTC CTTATGCAAN GATTGAGGAN TGCAACAATA TAAAGNACGT 300  
GNAGTCCCNA NN 312

SEQ ID NO:6303

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07465

SEQUENCE DESCRIPTION:

GATCCGCCCG CCTCAGCCTC CCAAAGTGTT GGGATTACAG GCGTGAGCAC CGCGCCTGAA 60  
NCTGAAGGTT ACTTTTCTTT TCAGTGGTTT GGGGCAGGGT GTTACACAGC TTAATAGATT 120  
AAGAAGAATA AAATGCTGAA TGCTAAA 147

SEQ ID NO:6304

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07466

SEQUENCE DESCRIPTION:

GATCATATTT CCTCAAAAAT AAGAGAAATA AGGTTCATAA GGAACTTGC TGGGATTGTG 60

01837



2153480

GTTGTTTTGT TTTCTCAGCA GCACAAACAA AACCAGAATT TAGCCTTTAG GACTGCTGAG 120  
TAAGCCAAAT TTAAATGACT ACTGCTTTGT NCATGGGTAA GCCATGTNCT TTTCAAAATA 180  
AGTGCCACTA AAANCCACAT AATGCTTTGG TTTCTATGTG GCTAATANNT ATTNNGTCCT 240  
ATAGTTTATC TTATTTGTNA CTGATTTCN TCTCTGNAT GCCTCATATT ANT 294

SEQ ID NO:6305

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07467

SEQUENCE DESCRIPTION:

GATCCATTCG CCCCAAGGGG ACAACGGGGT GTCAGGGGAG TNAGGGGTGG AGGTAGGGGC 60  
CAAAGAGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNACTTCT 120  
CTNATGAGAT TATTGTCAAC CCTGCTTTCC CTGGTAGATA TTTGCCAGGC CCAATGCTTT 180  
AACCTTAAGC TGATATTTTN CCTTTAGATG TCAATCTCGT TACCAGCAGC CTTTGTACCC 240  
AACTNCAGNG NTCTATATTT NCGTAGNGGN TTTTCNCCCA TGTGCATGGA TNT 294

SEQ ID NO:6306

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07468

SEQUENCE DESCRIPTION:

GATCCCAGAG GCTGAGGGTT GGGGAGAGGA AGCCATCATC TCATTACCTC TGTCAGTGCA 60  
GGGGTGGCTN CTNCTTCCTT TGTGCACTTG GGTCGCTGTG ATTGTAAATA AACGTGATTT 120  
CGTACCAAA 129

SEQ ID NO:6307

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07469

SEQUENCE DESCRIPTION:

GATCTCTTTG TNATTTAAGA AGTGGCTGGA TTGGAACCTT TAATATGCTA ATNTGGAAAA 60  
TTAATTACCT TTATGAAGGT GGTATTATAC AAATAAGCAC ACTAACCCTT CGGAAGTTGT 120  
TTTACCTACT TTAAGGTTT TANTGGATTG CNCCTCTGTA ANCTATTCCT AANNTGTGTA 180  
TGANATATTT NAN 193

SEQ ID NO:6308

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07470

SEQUENCE DESCRIPTION:

GATCTTTCTT CCTCTCCAGC CCACAAGTGG CTCTAGTGAG ACGAGCATTT AAGCTGCAGG 60

01838

TGGTGGCACT CGGGTCTCAG AGCCACCAGA CGTGCAGGTG GGACAGTGGT TCCAGCTCCG 120  
 GCTGCCTGTN AGCGTCCCTC CCAGGTGCTA GCCCTGGCAG GCACAGCCCT NCCCTCATGC 180  
 CAGCAAAGGA AATGCTCTTG ATGAGAGGCT CGCTTTAAAG AAGCCCAAAG CGTGTGCTTA 240  
 TCCAAGGGGT TCAGCTATTC CTGACTTCAC GGCTTGCATG TTTGATTTTG N 291

SEQ ID NO:6309

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07471

SEQUENCE DESCRIPTION:

GATCATATGT ATTTNTATGT TCTGTAAAGN ATTTGACTTA CTAGTTCTCA ATAAAATTTT 60  
 ATTAGGACTA TAAAAAATAA AAAAAANTTT TAATAAA 97

SEQ ID NO:6310

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07472

SEQUENCE DESCRIPTION:

GATCTTATGT ACATACCCAT TTTAGCTTTC CCATGCATAC TTAAGTGCAC TTGCTTTATC 60  
 TCCTTGGGCA TTCTTACTTA GGATTCAATA GAAACATGTA CAGGGTAAAC AATTTTTTAA 120  
 AAATAAACT TCATGGAGTA TCTGAAA 147

SEQ ID NO:6311

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07473

SEQUENCE DESCRIPTION:

GATCACATTT TGAAATGCCT AAAAGACTTT ATTGTTCTAA TTATCCAGAT GTACCTTTGT 60  
 AAAATAGCTC TTTTATGAAT TAGCTGATAA GGCTGTATGT TTCTGGANCA AATATTGGGN 120  
 CACCTAAAC CTTCCGGTTT CCGGGGGCCN GGGAAATNGG AAATNAGGTT TCNAATNTTA 180  
 AATNAGGNTN 190

SEQ ID NO:6312

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07474

SEQUENCE DESCRIPTION:

GATCTGGATT TTTGCCAATT CCTATGAAAA ATAATCCCCA GAAATAAACT ACTAAGGAAA 60  
 ATAAA 65

SEQ ID NO:6313

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07475

SEQUENCE DESCRIPTION:

GATCCATTGG TGTTTGTTTT GGGGTGTTTT TTAAGTTTT TCTTTTATAT CATCCAGAAA 60  
TAAAGACACG TACACTAAA 79

SEQ ID NO:6314

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07476

SEQUENCE DESCRIPTION:

GATCCAATAA CCCAGTTAGG TATTATAGAT TAGTATTTAA GTTGCTGTGTA GATTGTGTGT 60  
GTGTGTGCTA AGTAAAGTN CCATGATTCA CAATTTTAGT ATTAACCCAT GTTGCAAAAG 120  
CTGTTACTGG CCAACAGATT GTNATGATGT GTACCATATA ACACAAGCNT TANCTNGGCA 180  
TTANCGTTTG TNAAGCCANN TNTN 204

SEQ ID NO:6315

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07477

SEQUENCE DESCRIPTION:

GATCTCATCT CTGAAAATAA AATACCCCGT TAAATTCTG GCTTTTGTTT GTTAAGGTTA 60  
TTGAGAAGGT AATAGAAAAA GATATGATAC TACTTTNCTC TCTTGGATTT GTAAAANTAG 120  
TGGAATTTTC ATAAGGATTT TGTATTTTCT ATTGCTGTAT AACATTATTA ATACAACTT 180  
ATTGGCTTAA NANNCAAANN NNNN 204

SEQ ID NO:6316

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07478

SEQUENCE DESCRIPTION:

GATCACGAAG ATACATGTGT TTGACTGTTT AATTGAAAG TTTACATTTT TNATGCTTTG 60  
TGTTGGTGTG TAATTTTGT ACTCTTGGTG GCTAGTTTTT GTCAAATCTT TTTTGAATA 120  
TTGCTTAAAT GTNTTGATTT TATGATAGTG AAGCTTGTAT TCAGTGTTTT GCCAATNAAT 180  
ATTATATGCT TGTAAATAANN GCAAAAGANA AGCTTAAA 218

SEQ ID NO:6317

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS07479

SEQUENCE DESCRIPTION:

GATCCCAGTG GGAACCTTCA TGCCTTATTN ATTTCTAATG GGTAAAGGGG TTTTNTTACC 60  
AAGCATCCCT GACCTCCTGG AGACACCACC TGCTTTCCGG GCGGCACTGT GATGGGAGCT 120  
GGTGGCGACT GAGTCCTTCT GTACGTGCAA CTGGGAAACT TTTGTCCTTT GAGGCTAGGC 180  
AGCTCCCTGC CCTCCGTGTG TGTCTGTTAT CTGGGGGAGA GGAGTGTGGG AAGGNNTTGG 240  
GGGAAGAGCT CCAGCCTGTN TTGNTCCCAA AGTTCTNNAG TGGGAAGACC NGGGTNACCT 300  
TTTNAGGGTN TANGGTGNGG GGAANTTTT TTTTN 335

SEQ ID NO:6318

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07480

SEQUENCE DESCRIPTION:

GATCTGCGTG TCAAAGTGT CCATTTGTTT ATGTAAAGTG ATATTAAAA AGATATAAAC 60  
TATAACTGTC CGTACTTTT GGCAAAAGAT ACAACCACAT AATGTATATA ATTCCTAGTT 120  
TCCATATTTA TCCGCATGTA AAGGGCCGGT TTATCCATGT TACAGCTCTT CAATATTTAT 180  
GGCTAGAAGA NCTCGTATGT ACACTTTAGT TTCCAGAACT GTTTGGTAAC CTTTCGTACC 240  
TNATTAGAGG ATTCTNAAAT CTCAAA 266

SEQ ID NO:6319

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07481

SEQUENCE DESCRIPTION:

GATCCACCCA NCTCGGCTTC CCAAAGTNCT GGGATTATAG GCGTGAGGCA CCGTGCCTTG 60  
CCGATAATG GATTTNAAAG TGAGTCTTTG AGGGAAGAGT AGGACCTGCA CTGAAACAAA 120  
AAGACAATTT GTGGGGTTGG GGNGAGGAAC CAGATGTAAA CAATGGAAAG NTTTGGTGT 180  
CACTTTGAGN NGGATTTTTT GGAAGGGTTT TGCAATGTCC ATTCTGTATC TTGGGTTANC 240  
ACTAGTAAGT CAAATGGNGA ATAATTGAG TGTCACNT TCCCTNCAGT TNGGAAAAAN 300  
TTTTTANCNG TTN 313

SEQ ID NO:6320

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07483

SEQUENCE DESCRIPTION:

GATCTGTGCT TTNCCCACT TTGCCACACT GTCTAAGGTG GCTTTNAACT GGAACCCAAG 60  
TGCAATAAA GGTGGTATT CGCTCCTGAA AAAAAAAAAA AAAAAAAAAA AAAAAANAA 120  
AAAAAAAAANA AAATNAACNA AANN 144

SEQ ID NO:6321

01841

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07484

SEQUENCE DESCRIPTION:

```
GATCCCTCCT CACTTGCCCT GCCACTTTGC ATGGTTTAT TCTTAACCTG GTCCCCCAGG 60
TGTNAAGTGT AGTGGCATCC ATTTCTAATG TATGCATTCA TCCAACAGAG TTATTTATTG 120
GCTGGAGATG GAAAATCACA CCACCTGACA GGCCTTCTGG GCCTCCAAAG CCCATCCTTG 180
GGGTTCCCCC TCCCTGTGTG AAATGTATTA TCACCAGCAG NCACTGCCGG GCCTCCCTCC 240
CGGGGGCACT GCCTGAGGGC GAGTGTGGGN NTAGCATTAG CTGCTTNTCTN CNNNCCTGGN 300
ACNNACTGTG GCCTGGAATN GNATAGTGGT NN 332
```

SEQ ID NO:6322

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07485

SEQUENCE DESCRIPTION:

```
GATCTAATTA ATGTGAAGGA CTNGCCAGTC TGGGAAACCG CCTGCCACGT GGAAGAGCCA 60
AACCCGACTC TNTGCTGCCA CATGCCGTTT CCATGCCCCG CTGCTGGGCA CCTGGNAGAG 120
CTTCCAGAAT CCTCGCAGAC AGCCCAGAGC CTGCCGCTAC CCTCGGCCTG CCCACCACCA 180
AGCAAGCAGC AAGCAAGATG GGGTTCTCAT CAGTTCTTCC TTCCACAAT GTAGGACCTT 240
TCCTTTTACC TTTNCAATGG GATAAAATAG TTCAGAGTTC ATTAGTCATA TTTCATTGGN 300
CACAAGGAAT TCAANGGTTT TTTNANCAAT TTANCANTTC ACCCGTCTTA TGTINGTTAA 360
NANTNANANC NANTCN 376
```

SEQ ID NO:6323

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07486

SEQUENCE DESCRIPTION:

```
GATCACAGAC ACCCAGTNCG TGGNCCCTGT CTTACCCCA GCNAGCATCA TGTNAGTGGG 60
CCTCGTTCCC CCCGGAGAAT CCCAGCGGGG CCTCANAGAT GCATCTGGN 109
```

SEQ ID NO:6324

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07487

SEQUENCE DESCRIPTION:

```
GATCTTGGCT GCTTTTAACT AGAAGGTGTC TTTNATNAGC ATATTTATAC TGCTGAAGGA 60
TGAGTGTNAA TTAAATTAA CTTTGCCGTT TTGTAGAGAA AACTATTCAC AAGATAAATN 120
CCAAGTCTTT NCACCTGTCA GGCATGCATA TNTNAN 156
```

SEQ ID NO:6325

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07488

SEQUENCE DESCRIPTION:

GATCCCACTG AAGGGTTTTG TGTGTTTAGG CCTCATTTCT TTGTCTTTT CCTACTCCGT 60  
TCCTGGCATT TCCTGATTTC NAGTGTATAC TCTGTAGTCT CAGTTCGTGT TTGATTCCAT 120  
TCCATGGAAG TAAAAAGTAT GTTGTACATA CTGCCGAAGA ATTGTCTTGC AAGTAAAGGC 180  
TTCCCCCTT ACTATAAGAC TATAANTAA ACCTTATTN ATCCTTAA 229

SEQ ID NO:6326

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07489

SEQUENCE DESCRIPTION:

GATCTTACAC ATTCTGTGTA TAAAGACCTT AACTCCACAG GACGGACATT TTAGAGTTTA 60  
AATTATTAAG GCTATCATTCT TTTTAGTAAT GTCATATTG CAACTTTTT NAGTTTTGGC 120  
CTTTAATTTA AAANGCCTAA TTTTAANGTG CTGCCTGTNA GTAACCTTG ANTAANANCA 180  
ANTTATNACN 190

SEQ ID NO:6327

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07490

SEQUENCE DESCRIPTION:

GATCTCAGCT CTTTNGGTGA CTGCATATGC AGTGGTGACC CAGCACAGTT TCCATCAATC 60  
TCGTCAAAAG ACTTGAGGTT GTTGGGCACA GTATTTCAGA TGACCACAGT TAAAAAGCTG 120  
GGTATACACA ATTAACANCC AANGTGATAT GCATTTATAC CTTTCCCTT ATGNCCAATT 180  
TCTTTATAAA TATGGCTCAT CTGCTCATAA CTGTTAGNCC CACCCAACTG TCATTAGTAA 240  
CCTGAGTGTT TATGCTTGCA AAAGTGTATG TTGTTATTGT CTGATTGAT NATATTCNGT 300  
GNTGTTTAGN GAATGCNGTN GTGTTTNANT GNATCACAAA NAATTNCCCC ATTNN 355

SEQ ID NO:6328

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07491

SEQUENCE DESCRIPTION:

GATCATTTGA ATCTCAGTCT TCAGCCTGCA CTGATTTGTA GCCTGCACTG TCTTACTGAT 60  
TTACAAACTG AAATCACTGA GAAATGTCTT TAGTTCAGTG AGAAGAAACC AGAACAATTG 120  
TTCCTAGTGT TGTGTTGTTT TTTTAAAGCA AATTACTTAC TGTATTTTNA TGGCAGGNGG 180  
GNGAAAAAGT GTTACAACGG TTTCTAATGA AGTCCGGTAT TTANNTGGTA AATGACTAAT 240

GTGTTTAGTA GTGCCAAANT AAACCATTAN NTGNTTGTCC TTTGCCAAAN ANANNANN 298

SEQ ID NO:6329

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07492

SEQUENCE DESCRIPTION:

GATCACAAG AAAAAGCATT TTTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60  
GGCGCATTGC ATTTCCATAG CACTGAAGTA CCAGTTTCCA TTCCTGGGCT GNGATTGTTT 120  
TTCCCGTGGT TGTATTGTTT TGATTTAACG ACCACCAGNG TAACTGNNTT TTNTTTGTTT 180  
GTTTNCCTGGT GGGGTNNCCA CCAATTAAAA CTNNTANAAN CCCGN 225

SEQ ID NO:6330

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07493

SEQUENCE DESCRIPTION:

GATCGACTTC GATAAAATAC TTTTGCCTAA TCAAAATTAG AGTGTGTTTG TTGTCTGTGT 60  
AAAATAGAAT TAATGTATCT NGCTAGTAAG GGCACGTAGA GCATTTAGAG TTGTCTTTCA 120  
GCATTCAATC AGGCTGAGCT GAATGTAGTG ATGTTTACAT TGTTTACATT CTTGTACTG 180  
TCTTCTGCT CAGACTCTAC TGCTTTTAAT AAAANTTNAT TTTTGTA 229

SEQ ID NO:6331

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07494

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGATAGGT GCAGAACCCA TCTGGACACG GAGACCAGGA ATGGAGTTCC 60  
ATGGAGGCCT GGCTGGCACT GCACCCGGGC ATGAGGACAC ATCCAGTAAG AAGACCTGCC 120  
TCAAGAGGTG CACTGCGGTG ACCAGTGGAG GTNACTGGTT GGAGCCTGGA ATTGGAAGCA 180  
GATTCCAAGC TCTGGTGGAC AACTCTCCA GGCCTGGTGG GATTACAGC TGGGGCAGNC 240  
CTCATCCTGG CTGCNTGGCC ACAGNCCCN GCTNTTNNCC ACTTGGTGGT AGGGCCGATG 300  
CCTTNTTGG ANGAGNTGGG NTTNTTGG TCNCGACTGN GTANN 345

SEQ ID NO:6332

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07495

SEQUENCE DESCRIPTION:

GATCACAAG AAAANGCATT TTTAAAAAGT TGGCAAACGC TGAAACGCAC TGTGGTATGA 60  
AGCGCATTGC ATTTCCATAG CACTCNAGTA CCAGTTTCCA TTCCTGGGCT GAGNTTGT 120

TTCCCGTGGT TGNATTGTNC TGATTTCACG TACNCCAGAG TAACTGNTTT TTTTGTGTT 180  
GTTTTCTTGT GGAGTTAACA CCANNTAAAA NTTGTAAAN 219

SEQ ID NO:6333

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07496

SEQUENCE DESCRIPTION:

GATCTATTTC TCAGCTTTCA CTTATGTGAG CCAATAAATT CCTTTTTTGT TGAAGGCAAA 60

SEQ ID NO:6334

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07497

SEQUENCE DESCRIPTION:

GATCTACCCC CCCATCAACG TGCCCCCTCG ACTCCCGGTG CTGCGGAAGA ACTGAAGGTT 60

GCNATGCCTT ACTCTGACGG GAGCATCTGT ATTTAATGT TAAAAGCCCA CAAAATAAAA 120

ATAAAAAGTA ACTGAGATGA ATTAATAAA CAAA 154

SEQ ID NO:6335

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07498

SEQUENCE DESCRIPTION:

GATCTATGCT GTATGCACAG ATTGCATAAT GGCTTTTTTN CTTAACATTA TGTGATAAGC 60

ATTTCCTGA ATAANCTTAT TTAAAAATAA A 91

SEQ ID NO:6336

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07499

SEQUENCE DESCRIPTION:

GATCAGGTGT GGCCAATNAA ATTNAAGAGG AAGTCTACCT GGGNTTCTGG GAAAGCTTTT 60

CCAATAAAAG ACACAGGCAT GGCTAACACC TCCCTGGGCC TCTTCTTCCT ACCTTGATTG 120

AGGGTGTGAT GCCTGGAGCC ACAGCAGCCA CTTTGNNNNC ATGACAAAAA GGCCAAGNGN 180

N 181

SEQ ID NO:6337

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS07500

SEQUENCE DESCRIPTION:

GATCACCAAA ACCTGATGTT TTAAATNTGC TTTCTTTTGG AAATTTATGT TTTCAAATAA 60  
AATCTCCCTA AAGCAAA 77

SEQ ID NO:6338

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07501

SEQUENCE DESCRIPTION:

GATCCTATGA GTGTAGTTAA TGACTGTTNG TAAGTCAGTA GAGTAAATN CTGTGTCCAC 60  
GGGGTGTAC AGCCTCACCA TACCCTGTTG AGGTGTGAAA TGCCCCGTCA GAAATTAAAT 120  
ACAAACTTAA ATGTGCCTAT TGGTGTCTAA NCTCATACA ATGTAAGGNC AGATTCCTTT 180  
TNGGNNTACT GGGTGTCTGC GCCAGGTTTG NTAGTTAGAC TTAAAANCTT GANATTCACT 240  
TTTTGGGGGG NGGGNTATAC TGANN 265

SEQ ID NO:6339

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07502

SEQUENCE DESCRIPTION:

GATCTATTGG AAAACAACAT GGAATGGAAT TCTGGAAATN ATTATTCATT GAAGAATGCA 60  
GTGGCCAAGA AAATATCAAA TGTAGATTGT NAACGCTTGA GAATCATGGC TATGGTTTCT 120  
NATGTCCTGG TAACANGCTG TTATCTTTNN NGACATTTTN N 161

SEQ ID NO:6340

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07503

SEQUENCE DESCRIPTION:

GATCTAGTTA TAAAATACAT GAAAAGGCTG ATGCAGCAAT CGGTGGAATC GGTTTGGAAAT 60  
ATGGCATTG ANTTTATTCT TGACAATGTC CAGGTGGTTT TANAACAAAC TTATGGAAGC 120  
ACATTAAAAG TTACATAANT ATTACCAGAG AGCCTGATGC TCTCTGATAG CTGTGCCATA 180  
AGTNCTTGTG AGGTATTTNC AAAGTGCATG ATAGTAATGC TCGGNGTTTT TATAATTNNN 240  
NNTTCCTTTT AAAGCAAGTN TTTTGTACAT NN 272

SEQ ID NO:6341

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07504

SEQUENCE DESCRIPTION:

2153480

GATCAGTGTG GAAAAGCCTT CANTCAGAAA GGAAGCTTAA TTNTNCACAT CAGAGTCCAC 60  
 ACAGGCCTGA AGCCCTATGC CTGTNCCCAG TGCAGGAAGA GTTCCACAC CAGGGGGAAT 120  
 TGTATTCTGC ATGGCAAAAT CCACACAGGA GAGACACCCT ATCTNTNCGG CCAGTNTGGA 180  
 AAAAGCTTCA CCCAGAGAGG GAGTCTGGCT GTGCACCAGC GAAGTCTTCA CAGAGGCTCA 240  
 CCCTTTGACC ACTTTCCTGA AGAGAAGTTC TCTTTATGAA TTAAGGAGTA CAAAATCCTC 300  
 TGAGNTTGAN GCAACCCTAT CCAAGTTTCT ANTGGGANTG GTTGN 345

SEQ ID NO:6342

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07505

SEQUENCE DESCRIPTION:

GATCTGTCTG CCCATCTGGC CCAGGGGGTC CGAGAAGGGA AGCCTTGGGC AAGAGGNGAC 60  
 CAGTTGCAAT ACTGTACTTC CTGGTCAGTG GCCAGAGGAT GCGTGCAATA GCAGAGGCCA 120  
 GGTNACCCCT TCAGCCTTGG CCTCTGCCNC TCCATTGGCC CTCCCTNCCT GNTNCTNCNT 180  
 GGTGTNGGTC AGTCCTTTTC TAAAGNTGTC CN 212

SEQ ID NO:6343

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07506

SEQUENCE DESCRIPTION:

GATCTTCGTA TAATTGGCCA CTAATGTGAG AGTTCACTAC TAGGCAGAAA CTATTATGGA 60  
 CAGTNAATA ATGACTTTAA TCTCACCACG TGAGTTTAT GCAGTCTTTC CTGTCTAGCC 120  
 CTGCGCTCTN CCTGCCCATG TNATTGCGGT GCAGTAGTTT CTGTNGTATA ATAGTGTGGA 180  
 CAGCAGCTCA GAAAAGGAGG GAATGCTACT GATAATTTGT AGATAATNNN NTTTANGACT 240  
 TAGGGGAACC ATTGACCTTT GANATTTTNA TTAGAAAATN ATTTGTNCAG AATCAGACTC 300  
 CATTATTTNC CATATN 316

SEQ ID NO:6344

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07507

SEQUENCE DESCRIPTION:

GATCAAAAGG AATGATGTAT TTTTAACGTG TTGGCCAAAG TCACTGGATA AAATGAGAAT 60  
 TGTATATTTN TAATTCATTT TGCAAAATNCA GAAAGTTGGT CCAGATATAT GTCACAGANC 120  
 TTTNCACTTG TATACTACTC TTACAATGGA AAANNNTCCC GAAANCTGTA TACTTCTGAT 180  
 TANN 184

SEQ ID NO:6345

LENGTH:361

TYPE:nucleic acid

01847

2153480

TOPOLOGY:linear

CLONE:HUMGS07508

SEQUENCE DESCRIPTION:

GATCAGACCA TGCAGGTAAG GTGAACCAGC TGCACGGACC AGGTTCCCGC AAAACATTGC 60  
 CAGCTAGTGA GGCATAATTT GCTCAAAGTA TAGAAACAGC CCACCTGTGC CCACTTTGAC 120  
 CATTGGTGAG GATAGATATA AAATCACTTC TTCCAACGAA GCCTAGGTGA AAATCTATTT 180  
 ATAAATGGAC CACAACTCTG GGGTGTCTGT TTTGTGCTGT GACTTCCTAA TTATTGCTAA 240  
 AGAACTACTG TTTAGTTGGT AATGGTGTA AATTACATTC AGCTCCTTCT TGTCATATAA 300  
 ANAGGAATTT GGGGGGTGTC GGTTTAAANA TTTTATTNCA CCTGTACCAT TTNGTCACTC 361  
 N

SEQ ID NO:6346

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07509

SEQUENCE DESCRIPTION:

GATCTGTTGT TATACCAATT GAATTAATTG AGTTNNTTGT TGGACATTTG GGTGGTTNC 60  
 AAGTCTTTGC TATTGTGAAT AGTCAATGGC AGTATTTTNA ATGTTGGTCT ATTATTGTAC 120  
 TAAATAGTTG TTTATATTGA GCTTGGGAAA GCTTTCGTGT CCAATAGAAA TAGCATATTA 180  
 AAATAAATGC CACTGTATAT NAATGANAGT GTTGATTATA TACCCTAGAN ACTTAANCCT 240  
 TAAGGNAGTT ATGTNTNAAT TNNCTN 266

SEQ ID NO:6347

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07510

SEQUENCE DESCRIPTION:

GATCAACTCC AGTTTCCAAT GTCTATGTGT CTATGTGTGT ATGTNCCATA CATATGTATT 60  
 CACATGAAGA CCGGCATGGC CAAGTNCCTG TGGAGGAGCA CTCAAGTGTG ACGAGCAGGG 120  
 CCACTGGACC CTGCAGGGCT GTGGTGATA TAGTGCAGCT TTGGAGGTGG AACTCTATTT 180  
 NAACACTTTT CTATGGAGCC TTCCGAGTCC CAGGTTTTNA CTTGAGGCTG TCTGTCTGGA 240  
 TGGCGGTTTT NAGACCTCCA TTAACATCCC TACCAGCAT TCTGTACTTC GGGGGGNCCT 300  
 CTATCTTGTN ATAAAACCTN TTACCAAGTG GAACATCGGT TACCCACCTT TTGTN 355

SEQ ID NO:6348

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07511

SEQUENCE DESCRIPTION:

GATCGTCCTG CCTTTGTAAG GCAGATTTGG AGGGGAGGCC CAACAGCAAA GATGGAGAGG 60  
 AAAAAGGGAG TGGAGCTTGT GGAACAGGAA GCCCCCAGG GTCTGTCCAG GGCTGCTCAG 120  
 CTCTTNAGGA TGTTGTGGAT GGTGAAGTGG TGATGGTGTC CTGGAGCAGC CCAGCACCTC 180

01848

CACTGGGCCC AGAAGGTCTT GACTTCGGAC ACTTACCCCT GTTTCACAAG TGTTTATAAA 240  
GCTGTTTTTN CTTTNGTTTT TCTCCTAAAT AATCCTTACT TGGTAGTTAT NAATCCTTCT 300  
TTGGGGGAGG GACAGGGGCT TTAAANCCTG GAGGAAAATT AATTTTNNAT TAANGGAN 358

SEQ ID NO:6349

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07512

SEQUENCE DESCRIPTION:

GATCATGGAA GCTCCGTGCC CCTTCTCCCA TTCCTTGCCC TAAGTATCGC CTCCATCTGG 60  
TTGTTTGTCT GTATCCTTTA TTAATAAACA AGTAAATNTA AGTAAA 106

SEQ ID NO:6350

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07513

SEQUENCE DESCRIPTION:

GATCAGTGCC AGAAGTCATT GTATTCAAAG AAGAATAAGC AAGAAAGAAA AGAAGGAAGG 60  
AAGAGAGGTA GACAGATACA AGATGAAATC CTGTCAAAAA ATGGAAGGAA ANCCAGAAAN 120  
TGAGAGTNNN CCANN 135

SEQ ID NO:6351

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07514

SEQUENCE DESCRIPTION:

GATCAGGAAC ATGGCAAGGA ACACCACACC ACTGCTTTTN AGCATTGTAC TGGAAGTNCT 60  
ATATAATGCA GTGTTAAAAA AAAAAGAAAT AAAATGCACA TAGATTTGAA AGGNTGAAAT 120  
ACAACTTTNT NCACAAGTAA CATGATTGTN TTTNTN 156

SEQ ID NO:6352

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07515

SEQUENCE DESCRIPTION:

GATCAAAAAG AAACATGAG TAACAAGCTA TAACATAGTT CACCACAATG GGACCCCCC 60  
CCCTTTTCCT NACCCTACAG TTAGTAATAT TNCAATTAAA NTANCTATAT TCTNCTATAT 120  
TTTNCCTGTT AAN 134

SEQ ID NO:6353

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07516

SEQUENCE DESCRIPTION:

GATCCACATA TCTCTAACAC CATTAAATATG AATCATTGGA AATATTTTAC TTATTAACAA 60  
AGTCTCTTGT GTTAAGCTAC AGATAAAGCT TTTGTGGTAG TGTCAAA 107

SEQ ID NO:6354

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07517

SEQUENCE DESCRIPTION:

GATCCAGAGA CATGTGGCAG CAGGCATGGC TTCCCCTTGG CCTCTCTGTA CACTGCCCCA 60  
GGACTGTCAT TTTGGCATCT GCAAAGGAAT CACTTTAGAA AGCCAGCACC TGGTTGATGT 120  
GTATTCATAC TGACATTAGA TTGATGTGCA CTGCAGGGGN AANNGCGTA GCTGNCACAG 180  
NAAAAGGATG TTTGATAGG AATAATTTTC TAGTATGTCT TGAAACATGT TCATCTGGAA 240  
GTATTTTCCT CCAAAGTAAT GTAGCATGAT TTNCAAGGA TTGTTAACAT GCCTGGGATT 300  
GGGAAAGNTA GGCCTAANGT TGTGCCAAAC TATATCAATA AATTCCCTTN 350

SEQ ID NO:6355

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07518

SEQUENCE DESCRIPTION:

GATCCCACTT GCATGCACCC AGAATTTTAT ATTCCCAGG AATATAGCAG AGGAATATTC 60  
TGGTATCATA TTTATCTTTC ACCATCTCAA AAATTACAGT TTTAAAACT CAAATAAAAT 120  
TCATCACTAT AACCAAA 137

SEQ ID NO:6356

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07520

SEQUENCE DESCRIPTION:

GATCCAACCC TTGCTAGGTA TCATAGTTTA GGCCCATTTA CCTTCCCCTG TACTGGCAGT 60  
TCAGCCGCTT ACATGCACTC ACCCTGTTTG TGGCTATTTT AAATTCATAT TATTAATAAA 120  
CAAAAAAAC CCAAA 135

SEQ ID NO:6357

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07521

2153480

SEQUENCE DESCRIPTION:

GATCCTGTCT CAAAAAAAC ATAACCGACA TCCAGAAGTG AAATAAATTA GCCAGTGTCA 60  
CAAAGTAAA 69

SEQ ID NO:6358

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07522

SEQUENCE DESCRIPTION:

GATCTTAAAA NTACAAAATG TAGACAATTA ATATTCAGGT GCTTACTTTT GAGCCAATAT 60  
GTAGCAGAGA AAAACTAATT NNTCTGTGGC AGTATTTTNA TTTTNGGCAT TTCCAGGAA 120  
TTAACTGAAG ACTAAAACTC ATATGTGANG TGTAAATGATA CTANGGNAAG AGTCAGTAAA 180  
ATTNCCATTT GGCTACCAAA 200

SEQ ID NO:6359

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07523

SEQUENCE DESCRIPTION:

GATCTTGTAATATATATAAT NTAAATAANA TTAAANCTGT AATTCCTTTN CCCTCCAAAG 60  
GCTTTTNTGT ACATGGCGCT GCATTGGCT ATTCCTTTG GAAATAAATA ATGTN 115

SEQ ID NO:6360

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07524

SEQUENCE DESCRIPTION:

GATCTTCCCA CCATCACAAA TGAATTTAAA GATGAAAAGA AACTCAGTTG CTCATACAAC 60  
TGCATTTTTC CTGTCTATTA TGGGAAACAT CAGACGTTCT GAGTAAGATA TATCTCATGG 120  
CATTAGTTAA TATAACTNAT ATTGTTTAA TCATGGTATT ACATGCAATT NATATCAGAT 180  
AAAAGCAGAA CACATTTTGT TNCTGCCTCT CTAAATGCT GAATGTAGCT GTNATGTATA 240  
ANTCCATTTA GTTTTATGTN CTAAGGNCT ATTTGTGCAC TCCAGNTTN CAGTAAANTA 300  
GNATTCCTAG TAAANCNNN 319

SEQ ID NO:6361

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07525

SEQUENCE DESCRIPTION:

GATCCTAATT TNNTCAGGAA TCCCGATGGA ACCCTGTGCT GTTNANACAT CAGTGTGTAA 60  
AACTCTCTGT GTCCTGTTG GGCTGTCCAG ACAGTCTGGA CTCTTGTAATTTTAAANATT 120

01851

AATTAAAGGA AACAAACCAA A

141

SEQ ID NO:6362

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07526

SEQUENCE DESCRIPTION:

GATCTTTTGC TTAGACGTTA ACTTGATGCA TCATTGGAAA GNTGTTTCTC TCATCTCTGT 60  
 CCTAAGGCCT GATAAAGTCA TAAAAATTGT NTTCTTTTGA CTAAG 105

SEQ ID NO:6363

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07527

SEQUENCE DESCRIPTION:

GATCTCAGGC CAGCCGTTTG TNCTCCTAGC AGGGTTGCTG TGCTGGCCAC ACGGAGAGGC 60  
 CCTAGAGAGC CTCATGGATT GTAACATAAG AAGAAACGGT TCCTTTTGT TTTTAAAAA 120  
 ATNATTTTAA AATACCGTTT TTAACACCGT TCTCTCGGTA CTTTTTTTAA GCTAAGTCAG 180  
 CATTGTCTTC CAGTGTTAAA GGCATCCCTC ACCTCTGCAT TGACCTTACG NATCCATGCC 240  
 AAGGAATGGG ATTTCCATCC CTGNGGCCAG TCAGTTAGGG TGTCAATTGT NCCTATTTGA 300  
 NTTTTTAATG NAATCTGATG NGGTGAGNTC AGGTTTANAA NTCTTCAAAN GNCGGTTNA 360  
 TTGTACCAGG NNTGNTATGG ATTAATCCNT GN 392

SEQ ID NO:6364

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07528

SEQUENCE DESCRIPTION:

GATCTCCATT CCTTGGGCTC CGCGTCCGAN TTCATGGTGC GCCGCTGTGC TGGGAGCTGC 60  
 AGTGGGAATN TNTGGGACAC CTTGACCAAA GGGGAGCTTT GTNTCGTGTG TTTTGAAAAA 120  
 GGCTTAATGA AGAGAATGTT GTTCATTCTT AGTAGTATAG TTTGCAATTC TTAATGGCAA 180  
 ATAATAAGTT TCAGTAGAAA ACAA 205

SEQ ID NO:6365

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07529

SEQUENCE DESCRIPTION:

GATCCTTTTC TACCCACTTT CCTATGGAGG ATTCCAAGTN ACCACTTCTC TCACCGGCTT 60  
 CTACCAAGGT CCAGGACTAA GGCCTTTTNN TCATAGCCT CAACATTTTG GNAATCTTCC 120  
 CTTAATCACC CTTGCTCCTC CTGGGTGCCT GGAAGATGGA CTGGCAGAGA CCTCTTTGTT 180

2153480

CGCTTTTGTG CTTTGATGCC AGGAATGCCG CCTAGTTTAT GTCCCCGGTG GGGCACACAG 240  
CGGGGGGCGC CAGGTTTTCC TTGTNCCNCA GCTGCTCTGC CCNTTNCNN TTATTNCCTG 300  
ACTTCAGGNC TTGAAACNNT TCCNGTGGTG TAAATAAAAA ANN 343

SEQ ID NO:6366

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07530

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAAAACAC ATTGAGTCCC TTTAACCAGG AAGAACTCTT CTGGGCGACC 60  
GTCCACATGT TCCTTTCCCT TCCTAATGAC GTGAAGTCTG AACTCTACAG AGCCTCTGTA 120  
CCTTCTCTTT AAAGGCAGCT CTGCTCACCA GGAATTGGCT ATAATNCTTT CCAACTCTCT 180  
CATCATTTTA ATAGCTATCA GCAAATGTAG AGGTGTAGGG GATTTTGTA CATCTGATGT 240  
ATGTAAAAAG ANATATTCAA GTTGGAAGGC AGNCTAGAAC TGNCTGNGA GATGTTTGAT 300  
GTACACATTA AANNTAAGGA ATTTTACATA AA 332

SEQ ID NO:6367

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07531

SEQUENCE DESCRIPTION:

GATCAAGAAT GGCAAGAAAA TCACAGCCTT TGTACCCAAT GACGGTGTCT TGANCTTTAT 60  
TGAGGAAAAT NATGAAGTNC TGGTTGCTGG ATTTGGTCGC AAAGGTCATG CTGTTGGTGA 120  
TATTCCTGGA GTCCGCTTTA AGGTTGTCAA AGTAGCCAAT GTTCTCTTT TGGGCCTATA 180  
CAAAGGCAAG ANGGNAAGGC CNAGNTCACC ATCCCCTAAA TTTTAAAAAG NAGTTTCACA 240  
AAGTNTGCA TATTTNNN 258

SEQ ID NO:6368

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07532

SEQUENCE DESCRIPTION:

GATCTGTACA TTATTGCATG TGGCAGTAGT GTATTNCAAT TTTGCATACT ATTCCATTTT 60  
AAGAATATAT TGCTGTTTAT CCTATTGATG GATATTGTA TTTNTNATAC TTTTGTGTAA 120  
TAATAAAAAT ACTGCTGTAA ATATTAAT 148

SEQ ID NO:6369

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07533

SEQUENCE DESCRIPTION:

01853



GATCTGATTC AAAGATAACC ATTACCCATC TTTCCAAGGC CCATCTAAGT AGTACAGGTG 60  
 TTTTGTCTTT TAAAATTGAC AGTCCTCTTT GCATTAAGTC TGTAGGGGGG GAATACAATA 120  
 TAAATATTCT NCTGTGTAAA CGTAAGAATG TGCTGTAATC TCCAGTTCCT TTGGATACCT 180  
 CAGAATTCTA TTTATTGTAT ACACCTTATAC TGTTTATNCA ATGTTTTGGG TCTTACTCTT 240  
 TTTGACGTAT TCTCATCAGT CTTCACTCTA GTTGCAAGC NCTGAAGTTA TTGATTACGT 300  
 CTAATGTGCA ATTNGGCTTC TATTAANTGC TATTTNATGG TTCN 344

SEQ ID NO:6370

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07534

SEQUENCE DESCRIPTION:

GATCTNTGTC ACACCCAAGC TGGTGGAGGA GCACCTCAAA AGTGCCANT ATANGAAACC 60  
 ACCCATCACA GTGGACTCCG TCTGCCTCAA GTGGGCACCC CCCAAGCACA AGCANGTCAA 120  
 GCTCTCCAAA GAAGTGAGCA GCCTGGCCCC TGCTGTCGGA CCTGAGCCTC CTGGCTNNGG 180  
 GNCTGTAAAT ATGTATAGAC CTGTTTTGTC ATTTTTTTAA TAAAGTCAGT TCTGGTGGCC 240  
 CTGNGACTTT GGNAGGGNAA GGGGGAGGCC ANAAANANTA AANGGGGGGA AN 292

SEQ ID NO:6371

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07535

SEQUENCE DESCRIPTION:

GATCCACCTG CTTGGCCTC CCAGAGTGCT GGGATTACAG TCGTGANACC GCACCTGGCC 60  
 AATTTAATA TTTTAACTGA AGATGTTTCA TATAATATTC AGCAATATAA AAATTACTAA 120  
 TGACTTTTTT GGTAAGAAA 139

SEQ ID NO:6372

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07536

SEQUENCE DESCRIPTION:

GATCCTAACC GNAGGCCCAT CAATTGCAAC ATAGAGATAC ACATGGAAAG AGGGTTTAAC 60  
 AGACCCTCTC TNGGACACAN CTGTTTCTCC TTTGAGCANT ANTTN 105

SEQ ID NO:6373

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07537

SEQUENCE DESCRIPTION:

GATCCAGACC AGCGTCTGGC CCAAGCCATT CANAGGTGGG GTCTGGGGNC TGGGGGTTTT 60

2153480

GTNTCGTGAC ACTTTGTCTC AAGGAGATTC CACATAGGGA TTTNAATTAG GCTTTCTNCT 120  
TGCNAAGGCC TGTGGCATCT AANCCTGGCT N 151

SEQ ID NO:6374

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07538

SEQUENCE DESCRIPTION:

GATCTNAGGC AGATAAGAA ACTTCAACTT ATTNAGAGA GGAGGTAGGG GATGGGGAGG 60  
TCACAGAGAA CTCTGGGTTT CTNCAGTTTA CTATGCCACA GCACCATATT TCCGGGTATG 120  
AGTTCTGAGC CCCACAATGG CCATAAGCAC TTAACCACAG ACCTAGTGAC GTATGTATAA 180  
NATATACACT AGATTCCAAA GNCTTAGTAT ACAAAGACC ATAAATATC TTATTTGTAA 240  
TTGTTAANA CTGATTACAT GTTAANNTGN TAATNTTTN NNTATANN 288

SEQ ID NO:6375

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07539

SEQUENCE DESCRIPTION:

GATCCTCTAC CCCGGAATG AGGACACACT TCAGGACCCA GCCCCACTGG AGTNTGGCCA 60  
AGNATTCTCC CAGCAGGAAA ATGGCCATTN CATGGACACC AATGANTGCN TCCAGTTCCC 120  
ATTCGTNTGC CCTCGAGACA AGCCCGTATG TNTCAACACC TATGGAAGCT ACAGGTGCCG 180  
GACCAACAAG AAGTGCAGTC GGGGCTACGA GCCCAACGAG GNTGGCACAG CCTGCNTGGC 240  
TCAAGTGGCC TTTTAGGTG GGTATTCTTC AGCCGTCTCT AGAATCTTN AGCCTCTTN 300  
TNGGCCTCA NATCTTTGN 319

SEQ ID NO:6376

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07540

SEQUENCE DESCRIPTION:

GATCTCTGTA TGNCTGTGT GTTCTGTGT CCTGGAATTG GATGCGTGGG ACTCGTTCTG 60  
TCCGCGGAGT GCACTCTTTT TTNCAGTGTG GCCCATATAT CTGTAAATN TTTGCTGAAG 120  
AGTTGTGTCT ATATATAGAG AAAATATATA TAANCAGAGA AATAAA 166

SEQ ID NO:6377

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07541

SEQUENCE DESCRIPTION:

GATCCAATGC CCTAACTTT ACATAAGAGT TCCGGCAAGG CTGTGACTTC AACTTGTGTT 60

01855

2153480

GTAAGTCAA CCTGCAGAAT CAAATTTAGG GTTATGTTTT CAGTTGTATC AGTCTTACGG 120  
CTACAAGATA TTAAAGAGAT TCTTCCTGG TTATCAAA 158

SEQ ID NO:6378

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07543

SEQUENCE DESCRIPTION:

GATCTCACCT TGTGTGTCAT CATAGAATTC AACTGGACT AAAACCTTTT AAGTGTAAAG 60  
ATTGTGGAAA ATGTTTTAGT CGAAGCTCTC ACCTTTATTC ACATCAAAGA ACCCAGACTG 120  
GAGAGAAACC ATATGAGTGT CATGATTGTG GAAAATCTTT CAGCCAGAGT TCTGCCCTTA 180  
TTGTGCATCA GAGGATACAC ACTGNGAGA AACCATATGA NTGCTGTCAG TGTGGGAAAG 240  
CCTTCATCCG GNAGGATTGN CCTCATTANG CACCNGNGAT TTCATGTTNG NGNAGAGGCC 300  
TATANTGTA ATCAATGGTN ANN 323

SEQ ID NO:6379

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07544

SEQUENCE DESCRIPTION:

GATCCTTCTA ATCTCCTGGA CCCTCCAGGG CACTCTGGTC CCTATTCCCC AGCTCCTAGG 60  
CAGCTGAGCC GGGTCCCTTA GGGGAGGTGA CCAGGAGCTT TGGTGCAGGG AGCTCTTNGT 120  
GGGGCAAAGG GCTGGACCCC TGCCAGGTCT GTGGACATGG TTATATGCCC GGNGAGGGG 180  
GGTACAGGGC CCCAGGGATG GCCCCAATC CCACCTCTGT TTATTCTGTA AACTGCAACC 240  
TATAAATAAC CTTTAGCATT CCTATTTGTA ACAAATNG NNTTTNTGNA AATAAATTAT 300  
ATTCCTAGT CTAATAAA 318

SEQ ID NO:6380

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07545

SEQUENCE DESCRIPTION:

GATCTTCTCT GCCTTTATTG TTTTGCCATT TCACTAAAAT ATGTTTAGAG ATATATAAAT 60  
NCTGCTTGA CTCTAAA 77

SEQ ID NO:6381

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07546

SEQUENCE DESCRIPTION:

GATCTCATTT TACAAGAGAA TCTCTCTGCA AA 32

01856

2153480

SEQ ID NO:6382

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07547

SEQUENCE DESCRIPTION:

GATCTCTAAG TGTAGCTGTA AATTTTGGGG TTAATTTGGC TTATATTGGN CCTTTTAAAA 60  
GNAATAAAGT TTTTAATGC AAA 83

SEQ ID NO:6383

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07548

SEQUENCE DESCRIPTION:

GATCTATAAA GAAACATAAG CTTAAAGTTG TTTATCACTG TGGTGTTAAT AAAACAGTAT 60  
TTTCAAAAAA TAAA 74

SEQ ID NO:6384

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07549

SEQUENCE DESCRIPTION:

GATCCAGACC TCTCTAATAT GAAGAATAAT GAGCCTTATN ACTATAAGTT TGTNAAATGG 60  
ATGACTAAAC ATAAGAACT ATCAGCCATC CCCGTTTCAG CATTCTGTAA CTCAGAGACT 120  
AAATCACAGT TTGAGAAGTT TGTNCGTTT TCCTTCATTA AAAAAGACAG CACACTGGAT 180  
GCTGCTGAAG AAATCATCAA GGCATGGNGT GTACAGAAGT CTTGATTGT GCAGAATGGN 240  
TTAATGTTTC TGTTAGATGA CCTAGTATGG NATGTGNACT TAGTGCTGCC ACCTGCTGGG 300  
ATGTTAANN GANTGTGGAT GCGTGGCCTG GCGGTGNNNG CN 342

SEQ ID NO:6385

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07550

SEQUENCE DESCRIPTION:

GATCCTGTGT TTTGAGTCCC AAAGGCCATG CCAAGGATTG GCTTTGGNTG GCTTTAATCA 60  
CCAACCCATC AACATCAAGC CTCNCAGG CCGGTTCAAA TAAATGTANT TAAATAAA 118

SEQ ID NO:6386

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

01857

2153480

CLONE:HUMGS07551

SEQUENCE DESCRIPTION:

GATCCAACAA ATTAACCATA TAAGCACAGA AAATAGAGAA ACACAGTTAT TGAATCTACT 60  
CTTGTCATTA ACATTTTCAA AAAACAAAAT GCATATTGTA ATATTTGGTA CATGACACTT 120  
GCATGTTGNT ATGCCTATAT NCTTGCAAAG NATTCAATGT GTACTTAGCG GCGNTTAAAN 180  
CTATGTCATG TACAACNTT ATAAGCNTT TTNCNGGGGT CCCATTTGCC CTTTCATCTT 240  
CAGTAAAGTC TTTGTCAGGN AANNGTTGTN TGGTTAN 277

SEQ ID NO:6387

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07552

SEQUENCE DESCRIPTION:

GATCCAGGGA TGGGAATGGG AGTGGGTAGG AGGGGTAATG CGGTCATTGG AGTCGGGGGC 60  
TGGAACATTA TGAGTGCTCA ATAAATATAA ACTAATGAGA AA 102

SEQ ID NO:6388

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07553

SEQUENCE DESCRIPTION:

GATCCAGAGG TGGGTGCAGC TGAAAGTAAA CAGAATGGAT TGCCAGTNAC ATGTATGCCT 60  
GCGCAGTTCC CTTTTNATT GCAGAAGCTG TGAGTTTTGT NCACAATTAG GTTCCTAGGA 120  
GCAAAAAACC TCAAGGATTG ATTTATTGTT TTCAACTCCA AGGCACACTG TTAATAAACG 180  
AGCAGGGTGT TTTCTCTCTT CCTNTCTAAT ATATGGAGTT TCGAAGAATA AAATATGTGN 240  
GCAATATTTA AATTCTCAGG AATTGNCTNA TACTCTTGNG GAATGGANTT CAGTTTTCAN 300  
TCANGNTTTA CATTTNTGGT GGCTTAANAA NCNTTGGN 338

SEQ ID NO:6389

LENGTH:245

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07554

SEQUENCE DESCRIPTION:

GATCAGTCTT TTGAAATTGG GATTCTAAAT TAGAATGAGA GGAGGAGCTG CTAAAGCATA 60  
AAAATGGTAG GGGTGATTTT GGTNTTTTAT CCTAGTGACC AATGTTGACC ATTAATTGTA 120  
CATTATAAAT AATGTTTTCN TCTGGGACTT TTGCACTTA ANGCTGGTAA TTNTNATCAT 180  
AGGGCTTCAA ATACAAAAGA NTTGTATGCG GTNTTCAGAA AATAAACATG CTCTTTGCAT 240  
ATAAA 245

SEQ ID NO:6390

LENGTH:345

TYPE:nucleic acid

01858

2153480

TOPOLOGY:linear

CLONE:HUMGS07555

SEQUENCE DESCRIPTION:

GATCTTNACG CGNCTGGGGG CGAAGATTTC GCCATGGATG AGGATGGGGA CGAGAGCATT 60  
CACAAACTGA AAGAAAAAGC GAAGAAACGG AAGGTTTCGG GCTTTGGNTC CGAAGAGGGG 120  
TCCCGAGCGC GGATGNTGAG GNTTATNACA GCNTGGAGCA GGATGGCGAT GAACCCGGAC 180  
CACAACGCTC TTTTGAAGGC TGGATTCTNT TTGTAAGTGG AGTCCATGAG GAAGCCACCG 240  
AAGAAGNCAT ACACGTCAA TTCGCAGANT ATGGGGAAAT TAAAAACATT CATCTCAACC 300  
TNGNCAGGCG TTCCAGGNTA TCTGGAAGGG GGTNTNCTCT NGTCN 345

SEQ ID NO:6391

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07556

SEQUENCE DESCRIPTION:

GATCCCCTGC TGGTCTCTGG CAGTCTCCTT GATTTTGGGT ACCATGTATA TTTCCCGCTT 60  
TNACTTTAAC GCTTTCTAGG ATAGGGTAAG CACCCTTAAT TCAGGCACCG TCCATNAGCT 120  
TCCTTTGCAA AGGCTACTTA TGGCCGGTCA CAATCCAGCA CTCAGACAGA GCCAAGGCAA 180  
TATCCTCTTG CCATGGGCTA TNATGTCAGA CAGTGGATGG GCTCCAGCAA CAAGAGTCAA 240  
AATAACTAAA GGCCTTTGCT CTCCTCTGAC ATTGAGGCCT GGGGCTTACA GTTTGGAATA 300  
CAACATGTGA NGGTTTTTGN TNGTTGTTTG TATTATTGNA GAN 343

SEQ ID NO:6392

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07557

SEQUENCE DESCRIPTION:

GATCAAAAAT TGTGGCCATC TTTGCAAATN ACTACCTNTA GCCTGTNAAA ATACATTTCA 60  
AAAAATGTTA TGTGCAATGA AACTAAATT NAAGAGCAGT TACAGTGTGA CTCACTCATG 120  
TTTAAAAAAN ATCGAAGAGC TAAAAAATAC GTCTAATTTA TGTAACCCNT TGGNATGTAT 180  
TNNTN 185

SEQ ID NO:6393

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07558

SEQUENCE DESCRIPTION:

GATCATTTCT TGTAATGTTT TGAGAGTAAT GCATACAGAA ATATAATAAA NTGTGTTGAA 60  
ACTGCAAA 68

SEQ ID NO:6394

LENGTH:163

01859

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07559

SEQUENCE DESCRIPTION:

GATCCCCATT GTGTATGANC TGAACAAGGA GCTGAAGCCC ACCAAGCCCA TGNAGTTCCT 60  
GGGTGATGAG GAAACGGTGC GGAAGGCCAT GGAGGCTGTG GCTGCCCAGG GCAAGGCCAA 120  
GTNAGGGGTG GGCTTGGGCA ATAAAGGCAC CTCCCCAAC AAA 163

SEQ ID NO:6395

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07560

SEQUENCE DESCRIPTION:

GATCAACTCC CACTCATCCT GCAGATTTAA GCTTGGATGT CACCTCCCGA GGGACGCTGT 60  
GCCTGCCTCC CTCGTCAGAG CAGGTGTTGT CATCTACTCA CAGAATCTGG CTTCTTCCA 120  
CAAAGCACCC CCGTGAGCAT CTGTTTAAAC TTGTCTCTCC ACCTAGACTG TAAGGTCCGT 180  
GAAAGCAGGG ACCACACCCA TTTGTGCTCA CTTGGGACCT ACAGCCTCTA ATCCAGAGCC 240  
TGACACAAAC CTCAATAAAT ATTTAAGGAC TGAAA 275

SEQ ID NO:6396

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07561

SEQUENCE DESCRIPTION:

GATCCGGGAC CTTCANACCC AGGGAAAGGG TGAGGGAGAC TGGGGCCTGG TCTGCTTTC 60  
CGGGCCTGAA AGCTTCCCGG AGGTTTGAGG GGTGAGGAGG GAGGAACGGT GGGGGNNGGC 120  
AGTCACTGNN N 131

SEQ ID NO:6397

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07562

SEQUENCE DESCRIPTION:

GATCCATTTA AAACAAGCTG ATAGTGTTC GTTAAGCAGT ACATCTTGTG CATGCAAAAA 60  
TGAATTCACC CCTCCACCT CTTCTTCAA TTAATGGAAA ACTGTTAAGG GAAGCTGATA 120  
CAGAGAGACA ACTTGCTCCT TTCCATCAGC TTTATAATAA NCTGTTTAAAC GTGAGGTTTC 180  
AGTAGCTCCT TGGTTTTGCC TCTTTAAATT ATGACGTGCA CAAACCTTCT TTTCANTGCA 240  
ATGCATCTGG NAGTTTTGAT ACTTGTAAC TTTTTTTTTT TTNGGGGNNN ANTNTTTNNG 300  
GGNCCAGGGG TTTTTTTTNG GAACCCCTTG GGCNNTGGCC CNGGGGTACC CGGCNAGNN 359

SEQ ID NO:6398

LENGTH:61

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07563

SEQUENCE DESCRIPTION:

GATCTCTGAC GATACCTGTA TGTCTTATT GTGTAAATAA AATTNCTGGT ATGAAATNAA 60  
A 61

SEQ ID NO:6399

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07564

SEQUENCE DESCRIPTION:

GATCCTGTGG GAAAGAGAAA GGCATCCCAG AAGTTTGACT TGTTCCTT TTAGAATCTG 60  
TCTCTGCAGG AAAGAAAAGT CATTTTAATA AAAACCAAAA TAATTTATAA TAATTGTNGC 120  
CTTTCCTCC CCATCCTCTC CACTAAGCCA GCAACTAAAT GTATTCAGAA AACAAGTTAA 180  
TCAAGGAGGG CAGAAGAATT TTTTAAAC TGTAAGAAAN TGTCCTAAG TTTAGATTTA 240  
TTACCTGTCA TTTAGGGCAA AANTCCAGTG TCCCAGCAC ATGGTGACCC AACTNTGTCT 300  
CACAGTTGCA AAGTGTGTG GAAATAAAG TTGCTTTGTG NACTTNGNGG GNAANNCNNT 360  
NANNNNN 367

SEQ ID NO:6400

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07565

SEQUENCE DESCRIPTION:

GATCAGGAAC CAAAAAGAAG AATGTACTTC ATCTGGTTGG GCTGGATTCC CTCTNATAAG 60  
CCTTCCAGT TGAAGTAAAG ATGAGGCTAG GCTCTAGCAA GTTGAAGTCA AACCAGCTCC 120  
TTCAAGAAGC TTTGAGCAGA ATGAAGTGGG GAGGACCCAG CTTCCAGCCC AGGAAGCCCA 180  
CTGTACCTGG AGCCATCTGG GATAAGACTT TGACCCATGA CTCCCATATC CACAGCCTGT 240  
CCATCCTAGC CCATCCCAGT TTATCCTGTA TCATTTGAGC TGGGNTTCCA CATCCTCTGA 300  
GTTGGTAGTC CCATNTCAAG TCNTTNAATA AANGNCTNTT TGGANTATTT GANTTCACAT 360  
TAAAAAANA ANAAGGCN 379

SEQ ID NO:6401

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07567

SEQUENCE DESCRIPTION:

GATCGGGGTA TGAAGTGTGC ACACGCAGCC CAACAACGGG CAGTGGTCTC TGTGCTCCTA 60  
GGCATCCAGC ACAGGTTCTG GCAGGGCACC CCTGCTGGGG TTGGGGGCTG GTCTGTGCAT 120  
AATCCTGGAC TGTGATGGGA ACAGCCCAGT GCAGTCTAAA CTTCAATTGT GTTGAAACTA 180  
CTTTAATAGA CAAAGTAATA AATCATGTTT ATCTATTGAT TTAAT 225

01861



2153480

SEQ ID NO:6402

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07568

SEQUENCE DESCRIPTION:

GATCTTCAGT TGTATTTTNG TGAATATTTT AATACATCTT TTTCAATTTC TGAAAACAAA 60

SEQ ID NO:6403

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07569

SEQUENCE DESCRIPTION:

GATCCGGTGC TACGGGAAAC ATTTTCCTAA GATGCCCATG AGAACAGACC AAGATGTGTA 60  
CAGCACTATG AGCATTAATA AACCTTCCAG AATCAATAAT CCGTGGCAAC ATATCTCTGT 120  
AAAANCAAAC ACTGTAACN CTAATAAAT GTTTAGTCTT CCCTGTAACC TTCAA 176

SEQ ID NO:6404

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07570

SEQUENCE DESCRIPTION:

GATCTTCCCT GCGGCCTCTG CCCTGGCCTG CTTCCAGCA CACACTTCTT TGGCCTAAGG 60  
GCTTCTCTCT CAGGACCTCT AATTGACCA CAACCAACCT GGGCTTCAGC CACATCAGTG 120  
GGCACTGGAG CTGGGGTGCA CATGGGGCCT GCTCACCTTG CCCACACATC TCCAGCCAGC 180  
CAGGGCCCTG CCCAGCTTCA ATTTACAGAC CTGACTCTCC TCACCTTCCC CCCTGCTGTC 240  
CAGAGCTGAA CATAGACTTG CACTTGGATG TCACCTGGAG TGTNACATGG GAGTGTTATG 300  
GCAGCATCAT ACCAAGGCCT ACTGTTGCAC ATGGGGCCAA AACCAGTAAA CAGCCACCTN 360

SEQ ID NO:6405

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07571

SEQUENCE DESCRIPTION:

GATCTNACTA ATAAATGAAG GGAAAAAGGA AA

32

SEQ ID NO:6406

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07572

01862

2153480

SEQUENCE DESCRIPTION:

GATCTGGTCA TTTAAAAGTG TGTGGCACCT CCCCACCACC TCTNTCTCTC GCTCGCTTGC 60  
TCGCTCCTGC TTTNACCATG TNATGTGCCT GCTCCCCCTT TGCCTTCCGC CATGATTGTA 120  
NGCTTCCTGA GGCTTCCCTA GAAGCAGATG TCAGCATTAT GCTTCCTNTA CAGTCTGCAG 180  
AACTGTGAGC CAATNAAACT TCTTTCCTTA TAANTTAAA 219

SEQ ID NO:6407

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07573

SEQUENCE DESCRIPTION:

GATCCAGTTA CATGTATTAT NNTTTTCCTA CTTATGGAC TATTTTGGAG GGATAAGCTA 60  
TTAAGACTAA GACTATGNGT GANAGTNGGG GAAGGAGCAG GAAGGGAGGA ACCTGCACAC 120  
CACATTGGAA CCNGCACACC ACATTAACAC AAAGGCAATC TTCTGGCTCG GACTGTTCTT 180  
TACTACTGTN CTAAAGAAA ATGTTTCATTC TGCTGCAGCT ANCTAGCCTC CATCTNCTAC 240  
ACCAAATACT ATTCCATGCC ATGGAAGTGC TATGCAATAA CTNTCCCAGG TAGGCACCTT 300  
ATACCCGCTT AAANAGNCTT TAAANATNTG CANTTTTGGT NGGNGTN 347

SEQ ID NO:6408

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07574

SEQUENCE DESCRIPTION:

GATCACTCCT TATTTGCTGT TATTTTNGTN CTCTTAACCA TACATTCCC AATGTTTAAA 60  
GGGTGGTATT TNGAGAAAAGT NAATGGGTTT TGTAAGTGCC AGCNCTTTAT ATAAGCAGGT 120  
AGACTAGCTT TTNCCCAGCA GACGCTTGTC TGTNTAGACT TCCTTAAAN AATTATCTTC 180  
AAATAAGCA AAATCTCCAT AAAANGNN 208

SEQ ID NO:6409

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07575

SEQUENCE DESCRIPTION:

GATCCATAGA CTTAGCAAGT CTTGCCTTAT CTATGGAGCT CGATGGTGAG AATTGTNACC 60  
ATTGTCTGAT GTCCATAGTT CCTTCCCCCT AGATTGTTTC TTTCCACGGA TTGTGTTTCA 120  
CTGAACCATT NNATTTTAA TTTACCAAAG TACTGTACTT GGCTATTTGC AGTGTTTTCA 180  
AAACCAAATG TTTCTNTTTT GGTGTTTTTA ATCTCCGATA CTTGGTGCAA TAGAAGCTGC 240  
AAAGATGTGC CACTTNATCT ATGAAATGGA GTNTTGATA CCAATAAATN CTAGTTTAAA 300  
AACANTTNAN NANNNANN 318

SEQ ID NO:6410

LENGTH:233

01863

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07576

SEQUENCE DESCRIPTION:

GATCTGTAA GGGGTGGATA ACATAATATG CAGCTTAGGA TGCTATTTTA AGATGTATGA 60  
TATTCAGTTC ATTCACCTGA TTACTTTGGT TGCAGCACAA CTGTATATAT NGTATAACCG 120  
AAATTGATTA TTTNCATTGT CCTTAATGCA GTGATTTATA ATTNGAGCAT GTTTAATAAG 180  
TTTNCCTTC TNGTAACTA GTCATTTGAC TGGNAANNNA TAANATNCTT TTN 233

SEQ ID NO:6411

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07577

SEQUENCE DESCRIPTION:

GATCCACGA GGACCACTNT GTAATTGNCA GGGGGCTTCC AGNNAAGACA CTGAACCTG 60  
AAGCCGTGGT CTGGGGCAGG GTGCTGGGAG AGGTGGGCGG GGGNN 105

SEQ ID NO:6412

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07578

SEQUENCE DESCRIPTION:

GATCACCTTC CCACTTCATC CATCCCCACC CTTCCAGCTC CCCATCCATC CTGCTGAAAG 60  
CATTTCCACC ACTCAATAAA ACCTCGCATT CATCCTCAA A 101

SEQ ID NO:6413

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07579

SEQUENCE DESCRIPTION:

GATCAGAAGG AATCCGNCGA GGCAGGGATG GGTGTGCCCA TGTNTGCCTT GACGGGACTT 60  
CATCTTATAG ACTGTAAAC TGTCACACAC AAACAGGCTT TCCACCCCTG CTCTGNGNGC 120  
ACCACGCACA GNTTCCAGT TCTTAGTGTG GCTGTTTAAA GTAGAAAATC TGGGGGCTGG 180  
GTGAGGCCAC TCATGCCTGT AACCCAGGGC TTTAGAAGGC TGAGGCTGGG GGGNTTGT 240  
GAAGGTCAGG AGGTTCAAGG CCCAACCTTG GGAACCATAG GCAACNACC CCCATNNTNT 300  
NCCAAANTNG AAAAAANCAA AAAGGNNAAC CN 332

SEQ ID NO:6414

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07580

01864

2153480

SEQUENCE DESCRIPTION:

GATCTACCAG CATAAATATC TNCTNATTG TCCCTATGCA TATCANTTGA GCTTCATATA 60  
CCAGCAATAT ATCTNAAGAG CTATTATATA AAACCCCAA ACTNTTGATT ATTAGCCAGG 120  
TAATGTGNN 129

SEQ ID NO:6415

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07581

SEQUENCE DESCRIPTION:

GATCTAGAGG AATTAGTCAT GACATCAAGA AAGGAGTCTA AAGAAGAGAA AGAAAATCAA 60  
GATGAAAGAG AAGTAAAAGA AGANGAACAA GAAGAAGAAG AAGAAGTCAG GTCAGCAGAA 120  
ANTTCCTCAA ANTCTCCAAA GAAAGGTCAC TGATTCCAAG GCANCCTGTG GNAAGANGAN 180  
TTCAGATGTC AGTGGGAGCC TCCAGGTGGG NGGNGAGCAT GCCTAANCCC TGGTGGCCAT 240  
TGTNCTGTAC TANGGAN 257

SEQ ID NO:6416

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07582

SEQUENCE DESCRIPTION:

GATCCACAAG GCTTCTGTAT ACAGTTCACG GTCCTCGGCA TTGCTTCTNG TAATTTNCC 60  
ATCCCAAAGG AGAGCTACTG TACTGACTGT ACTTGTGGAA TNCAGCGCTT CATTAAATTA 120  
AGTTTATTAA AATGCAAA 138

SEQ ID NO:6417

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07583

SEQUENCE DESCRIPTION:

GATCTAATGG GACACGGCCA GTGCCTAGGG GTGCCAAGTC CAAGGCCTCC CACTGGGNGT 60  
AATCGCTGAG AAGATGCCAA TTTTTCATCC ACCGGCTGCA CAGGCACAAA CTCCCCCACC 120  
CAGGACGGCT GTNATAGGT GGCCCTCCCT NTNAACCTG GTCCCTGGAG TCCCCAGCAC 180  
CTGGGGCCCT GGTGGGGCTG ATGTCACAGG TGTTTACTGT GCTGCTGCAC TGGTCCTATG 240  
NCAGCTTCAC CCCATGTGGG GACCACGGAA GGNACAATNC CTTACCCCCG NTTGCCGGGN 300  
CCGTGCGGTN NNCAAGANGG GNCAAGGANG N 331

SEQ ID NO:6418

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07584

01865

## SEQUENCE DESCRIPTION:

GATCCAGCTT ATCCTTTAAT TTCAAAGTCC ATTCTTGGGG CTGGTGGGGA GGCAGGAGAA 60  
 TACCCCTCCC TAAGCCCTTA GTGTGTGCCG AGCTTGCTTT GTNATGTTGG CAGGGGAGGG 120  
 GAGACCTGGG TGGTGACTGA GTTCCCTTTA TCAAACCCTT CAATGGGCAC AAAATTNAGT 180  
 GCTTGATTTT ANGGTTTAT TTTTNNATGA ATGTCCAAAA TCTGTGTTTC CCCNNTGCCC 240  
 TCCCAAGANN TGTGTGGGCC AGTTGAAAGT GTCTTGGTTT TGTGGTCAT CTTTCCCTN 300  
 AATTCTGGA GCANGNCCC TGAGNNCCNT GCCANAN 337

SEQ ID NO:6419

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07585

## SEQUENCE DESCRIPTION:

GATCATGGAT GTAGCATACA CCAAAATCCA CCGAGACCTT TGCAAAATNA GGCTACTTGT 60  
 TTNATTTTGC CAGATTATCA TGGGAGAGTC TTAACTAGT NCTGAATATT TGTAAGTCTG 120  
 AGTACTTCAT AGAATTATAA AGAAGGTACA GCTGACCCCT TCTCACCATG TNGTAAATAT 180  
 TTCCTGAGAC TGGGTGCAGT ACTGAGGGAT AATAATCTCC TGNTTTATCA AATCCTGACT 240  
 GTCTAGAGCA ANTTGTACAC TCTCTTTGTG AATGGTCCTG TAACGTGTAT GNNCACATTT 300  
 NTGGGTGCCT TAGANGTNGT NTTTTNCATG TGTGCTAATN TGCAGTTTCN 350

SEQ ID NO:6420

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07586

## SEQUENCE DESCRIPTION:

GATCCAGGGT CTNAACCGCC GTGGGACGAG GAGGGCATCC CGGCCACAGC AGGGGCCGAG 60  
 GAAGAGGAGG AGACAGAGGG GAAAGGGGAG CCGGCCTGAC CCACACCCCC GGCCATCGCT 120  
 CCCTGGGCCA GGTTTAGAGC AGGGAGTTTG GCTGGTGCTG GGCCTGAGCC AGGGGGCCGG 180  
 GACACCTTG TTTCCGGTGG TCTTCCCGTT GTGGGAGCAG GTNGAGGGTG GAGACCTAAA 240  
 CTTTGGGGTC CAGCTGCCTT CAGCCNNCT CCNCCAGACT AACAGACCCT TGGAGGCAGG 300  
 GGCTGTGGAA ATAAATCTTT GCCTGNTGGG NTAAAAAAA ANTATNANNT GTGNNNGTT 360  
 GN 362

SEQ ID NO:6421

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07587

## SEQUENCE DESCRIPTION:

GATCTNCTCT CCCACCCACA CTTATCTCCC CCAGGGCCAC TCAAAGTCT ATACACAGGG 60  
 GTGGTCTCTT CAATAAAGAA GTGTTGATTA GACCTGAATT TCTCCACCTA TAAA 114

SEQ ID NO:6422

2153480

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07588

SEQUENCE DESCRIPTION:

GATCTTTGCT ACTGGAGTCC TTTAACAACA CCTATAACGA TAAAAAATTC CTAATTNTTA 60  
AA 62

SEQ ID NO:6423

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07589

SEQUENCE DESCRIPTION:

GATCCTTCAT ATTTAATTAA AAGTGTTTCAT TCAGGTAAGG TGTATGTTGA AATTTTNCCA 60  
ATNATCTTAA TAAACCTGG CAATTTAAAA NCCAAA 96

SEQ ID NO:6424

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07590

SEQUENCE DESCRIPTION:

GATCTATTTA TNTAAGTATG TAGTAAACAA TATCTNAAAG TGTCCGATTC ACTACTTGTA 60  
AATTAAAAAA GTNATGATTA ATGTGAAA 88

SEQ ID NO:6425

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07591

SEQUENCE DESCRIPTION:

GATCAGAAGA AGCTACAGTT TTNTTTTAAA CTGAAAAAA AATTAAGAAG TATTAAGGAA 60  
AAAGCTTAAT ACTCTGGAAA CCAGACATCT GGTCTTTCTC ATGCGTAGGG AGCAGTGTA 120  
ATGAAAGTGA AGTCAAACGG ACAGTTTTTT NCTGCATTAT GCACAAGGTG TTTTAAATTG 180  
TCAGCTTAAG GTTTAGATGA NGATAATCTT TAACTTTGTT TACAATTTTG NCTATTTNGC 240  
ATTATCCCCC TTTTNCATA AAANNTAANG TGAATATGTG TGCATATNNN TNTNGAGTCA 300  
NAATTAACT TATN 314

SEQ ID NO:6426

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07592

SEQUENCE DESCRIPTION:

01867

2153480

GATCCTGTGG TGTGTATAA AAATGAACAG CTAAAAATT ACCCATGACA AGATTAAAGC 60  
AAAAATAAAC ACAAGTTGT TAGACTTTAA A 91

SEQ ID NO:6427

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07593

SEQUENCE DESCRIPTION:

GATCTTGTGC TATACTTTT AAAGCCATAC AAATAAGAGT GCTAAACTNT GGACTTAAAA 60  
GTAGGTGTNT AAATATTTT AATCAGTATT ACTTGAAAA TAAATATAA CAAACCCATA 120  
AA 122

SEQ ID NO:6428

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07594

SEQUENCE DESCRIPTION:

GATCCTAACC CCTGCAGGGC TCAGGGGTCA GCAGGGACCC ACTGCCCCAT CTCCCTCTCC 60  
CCACCAAGAC AGCCCCAGAA GGAGCAGCCA GCTGGNATGG GAACCCAAGG CTGTCCACAT 120  
CTGGCTTTTG TGGGACTCAG AAAGGGAAGC AGAACTGAGG GCTGGGATAT TCCTCATGGT 180  
GGCAGCGCTC ATAGCGAAAG CCTACTGTAA TATGCACCCA TCTNATCCAC GTAGTAAAGT 240  
GAACCTAAAA ATTCAATCAA ATGAACAATT AAATAACAC CTGTGTGTTT AAA 293

SEQ ID NO:6429

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07595

SEQUENCE DESCRIPTION:

GATCTGAATT TGTAAGTTAT TAATGTGAAA GGGGGAGCAG GAAGCTCCCC GTTGCACAA 60  
AGGGGGATTT GTTGCACAA AGTTCAGTGT AAATACTGTG AGANTNGANT TCTGAAAAGG 120  
TCATATTTAG TGATTCAAA AGCACACATT TAANTGANGA CTGACTAAAT AANAGGTACC 180  
ACACACTTCT NGGTTGGTTT CATTCCAAA 209

SEQ ID NO:6430

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07596

SEQUENCE DESCRIPTION:

GATCTCCCTC AGTNTGCCCC CAGCCCCCAA ACTCCTCCTG GCTAGACTGT AGGAAGGGAC 60  
TTTTGTTTGT TTGTTTGTG CAGGAAAAA GAAAGGGAGA GAGAGGAAAA TAGAGGGTTG 120  
TCCACTCTC ACATTCCAGC ACCCAGGCCT GCACCCACC CNCACTCCC AGCCCCGGA 180

01868

TAAAACCATT TTCCTGCAAA

200

SEQ ID NO:6431

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07597

SEQUENCE DESCRIPTION:

GATCTNATTC CAGGATTGCT CAGAAATTGG AAAAAAACTC ACCTGTGCTT CCCAAATTTA 60  
 TTTCCCAAGA CAAAGATGTC TATAGCACAG AAAAAAATGC ATGANTTAAA AAATCAAGAT 120  
 GTATTATTAA A 131

SEQ ID NO:6432

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07598

SEQUENCE DESCRIPTION:

GATCCTGAGC TGTCCCATTA AACATGGCCC TGTCTCGGTA AA 42

SEQ ID NO:6433

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07599

SEQUENCE DESCRIPTION:

GATCCACTAG ACAGTTTNC A GTTGCTTGG AGGTANCTGG GTAATCAAAA ATGTTTAGTC 60  
 ATTGATTCAA TGTGAACGAT TACGGTCTTT ATGACCAAGA GTCTGAAAAT CTTTTTGTNA 120  
 TGCTGTTTAG TATTCGTTG ATATTGTNAC TTTTCACCTG TTGAGCCCAA ATNCAGGATT 180  
 GGTTCAAGTG CAGCAATGAA GTTGCCATTT AAATTGTTC ATAGCCTACA TCACCAAGGT 240  
 CTCTGTGTCA AACCTGTGGC CACTCTATAT GCACTTNGGT TTA CTCTCTTT ATTNCAAATA 300  
 ANTATACTAA AAGNCTTTAA ANNANGNNNA NN 332

SEQ ID NO:6434

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07600

SEQUENCE DESCRIPTION:

GATCAATACG GGTCTATTTT NATGTCAACT GAACACTGTA GGGTACCTTC CAGTCTTTTT 60  
 CAAGATTGTN AAATTGAGAC AAGTAATTGA ATAATTGTC CTATTTTAAT TTAAAAAAA 120  
 GTGAATGGNC TGAAATGTTA AATGTGAATG TNCATTCTN AATTGCAACT TTNCTACTGA 180  
 GTGTTTGCAC TATACTTNCT GGAATCTNAT TTAACAAANN TANN 224

SEQ ID NO:6435



2153480

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07601

SEQUENCE DESCRIPTION:

GATCAAAAAG CACAAAGAGC TGGGGCAGAG GCAGGAAGCA GGGGCCCTCC TGGCAGCTCC 60  
TCTNAGTGGG GAGAGGTTGG GCAGTGAGTG AGGGACCCCT AATGCAGGGN CTAGAAGCCT 120  
CANTTTCCCC NTTTTACCCT TCCACACAAT AGCCTCTGTA GGNNAGGCTG CCCCATNCCA 180  
CCNGGNTN 188

SEQ ID NO:6436

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07602

SEQUENCE DESCRIPTION:

GATCTAGGAC TAANACTTAA AATGTGGTTG GAATCTCACT CAAGGCCTAC CCACCTAAAA 60  
CTGCGTTCTA GCAATTGCAT GCTGACTGCA CCTATGAGTC GTAAGNCTGT AGTTGCAAAG 120  
TGTGTCTAGT TTNANATTCT TTCTAAATAC TGGTACGGGN AACAGGCATT CCAGNACTTG 180  
TGGCTTGCTG GNGGTGGTNT GAGTNATGNG GAATCTTGGG AAGGGGTTCC TGCCCCCTGGG 240  
ANTTGGGGGG TTTTNN 256

SEQ ID NO:6437

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07603

SEQUENCE DESCRIPTION:

GATCCAGGGC CTTNAAACA TCCCCAAAGT CATGGCCATA CTCACCATTA GCCAGTTTCT 60  
AACATCTGTT TCAGGGTATC CAGCTGTAGA TGTTCTTATC CCCCATACTT GTGAGTTCTT 120  
GGGGTTGCTC ACAAATACTA GGGGTTTTTG TTGTATTTT AACAAANTATA TCCTAATGTC 180  
ATATTNATNC TCTTTTGTA CTGCTGGTCT TTACANTAAA GGNGTCATCT GCCTTTCAAA 240

SEQ ID NO:6438

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07604

SEQUENCE DESCRIPTION:

GATCAGCACC CTTCTCCACA TCCACATGAC TGGTTTTTAA TGTAGCACTG TGGTATACAT 60  
GCAAACATCC GTTCAAAATC TGAGTCGGAG CTAATAATAA AAAATGAAAA ANCAGAAATA 120  
AGAAA 125

SEQ ID NO:6439

LENGTH:321

01870

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07605

SEQUENCE DESCRIPTION:

```
GATCCGCCTG CNTCGGCCTN CCAGAGTGCT GGGATAAAG GTGTGAGCCA CTGTGCCTGG 60
CCACTCCCTT GAGACCCAGT TTCCACGTCT GTNAAATGGG GGAATACCCA CAGTGAGAAT 120
TAGATGAGAT AGATGCATTT NAAACCACAA ATCGGGGTGC CCACCTGTGG TGGGTAGTTA 180
GGGTAGCTGT TACAAAGTGC CCCAGCAGAG ACCCCCTTGA CTAACCTTNA TTCTTCCATC 240
TTTTCCACA GGTGGCAGCT GCCAACAAGA AGCATTAGAA CAAACCATGC TGGGTTAATA 300
AATTGCCTCA TTCGGTANTG N 321
```

SEQ ID NO:6440

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07606

SEQUENCE DESCRIPTION:

```
GATCTTTGTC CAGAAAATAA AGCTTTCTGT TGATTTTTTC TTTAAGCAAG AGGTAAGGAA 60
ATATGCACTT AAGANTATGT GTACAAGAAA ATAGTTTCTA AAATAAATTG AAATGTCTGC 120
AAA 123
```

SEQ ID NO:6441

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07607

SEQUENCE DESCRIPTION:

```
GATCCACTCT GGACACTCAA CAAGACCTGA ACAGGATTN CCTACCTGGT CCTTACACTA 60
CATCATCATC ATCTCATGCC CACCTGCCCA CACCCAGCAG AGCTTCTCAG TGGGCACAGT 120
CTCTTACTCC CATTTNTGCT GCCTTTGGNC CTGCCTGGCC CAGCCTGCAC CCCTGTGGGG 180
TGGAATGTA CTGCAGGCTC TGGGTCAGGT TCTGCTCCTT TATGGGACCC GACATTTTNN 240
AGCTCTTTC TATTGAAATA ATAAACCACC CTGTTCTGTG GAAA 284
```

SEQ ID NO:6442

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07608

SEQUENCE DESCRIPTION:

```
GATCTGGTAC GNGGTGGACG TCATGGCCCG ANATGCCAC GGNAACACAG CGCTGACCTA 60
CGACCGGCAG GCCTCCAGCC ATGGAGTGCA TCAACGTGCT TCTNCAGTAC GGCTGCCCCG 120
ACGNGTGTGT ATAGTATCTG TTTTATTGA CTGCAGTCTC CTTGGTGCAA AANCAAANTG 180
GGGAANNTAA GGATACTCA GNATTTCAAA AGGAN 215
```

SEQ ID NO:6443

01871

2153480

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07609

SEQUENCE DESCRIPTION:

GATCTNAGAC TTCTCAGTC CAGAACTGTA AGCAATAAAT GTCTGTTGTT TATAAATTAA 60  
A 61

SEQ ID NO:6444

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07610

SEQUENCE DESCRIPTION:

GATCCTTGCT CTACCTGGCT AGAGTTTCTN CTCATCAGAG CACTGGGACA TTAAACCAAC 60  
CTTTTACAAC ACAA 75

SEQ ID NO:6445

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07611

SEQUENCE DESCRIPTION:

GATCTCAGCT CAGAGAGAGA GCATGAGGTC TTTTAACT GTCAGGAAAC AGAGCTGTGC 60  
CCAATTCAC TCACTTTTG GCACAACTGT TAATCTGGGC CTTACCTAC CTTAACTGA 120  
GTTTCTGCAA GCATAGCATT TTAGACACCC TGAATAACC TTTGGGAAT GATGCCACAG 180  
AATAAAGTTC ACTCTTAACT TTTCAA 207

SEQ ID NO:6446

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07612

SEQUENCE DESCRIPTION:

GATCTGATAG TGGTAGGTCT ATCAGGAATA TCAGGNAAAA TNCTTTTAAT GTTGTGGCA 60  
AAGTCAATTC CTATCATTTG TACTTGACAC CAGCTACCTA GCAGGCTCAT TGTGAACTTC 120  
AGGTTTCGCC CACGTTATTT ATATAAAGTA TCTCAGTGTA ATATAGGGAG TTGCTGGTTA 180  
TTTGAAAATA GTAACAAAGG TAACCCAAAC GAGAACTCC ATTTCCATAA TTNGCTTTCC 240  
TGAAAGTCAG GCATGTCTTT GAGGACAGGT TTTGGCAGTA TTNNNTNGT GCACAGGNGG 300  
GAAATTN 307

SEQ ID NO:6447

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

01872

2153480

CLONE:HUMGS07613

SEQUENCE DESCRIPTION:

GATCTGCCTG TTTATTTTGG TGGGTGGTCT TTCCTCCCTC CCCTACCACC CATGCCCCC 60  
TTCTNAGTCT GCCCCTGGCC TCCAGCCCCT AGGGGACTAG CTGGGTGGG GTTCCTCGGG 120  
CCTTTTCTCT CCTNCCTCTT TTCTTTCTGT TGATTGTCGC TCCAGCTGGC TGTATTGCTT 180  
TTNAATATTG CACCGAAGTT TTNAAATAA AATTTTAAA 219

SEQ ID NO:6448

LENGTH:272

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07614

SEQUENCE DESCRIPTION:

GATCTGGTGT AGTATATTTT ATCGCATTTT CTTATATTAA AAAATGTCTG CATGATTACA 60  
TTTTATTTCC TTTGTAATTT ACATTCAGA ATAGTGTATT GCTATATGGG TGCCAAGATT 120  
GANTATGAAG AACCCGAGTN TTTGTAGTAT TATAGTTTAA AGCAAATCTG TGTGGTGATA 180  
CAGCCATAAG ANTGGGGCTT ATATAANCTC TGTACATGTA AGATTTTGTA CAGAGAATTT 240  
TTAACTTTAT AAATTGTATA TGANCATGTA NN 272

SEQ ID NO:6449

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07615

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCAGCCTC TGAAATTGTT GGGATTACGG GCGTGACACN CGCGCCTGGC 60  
ATGTATATCA TTTTNNATTG TGTATTTTGT AATTTTGTG TGTNAATTTA TTTTAAATAT 120  
AGTTTTCAAT TTAATTGTT AGTTTCTGTA GTGGCAAATC CTTGTGTTTG CAATATTGGA 180  
TTATTTCTCC ATAAGAGTTT CACATTCTC CTGCTAGGAA ATCCATGGGG AATATTGGAA 240  
TTGGGCTAGT TTTAATNNA TNNCTAATGT TTAANGGTTT TGA AAAANAT TGGCGNCAA 300

SEQ ID NO:6450

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07616

SEQUENCE DESCRIPTION:

GATCTCCACT TTNCCAAAGG GCTGCNAGAG GTGATTGANA AGAACCGGCC TGCTGATGTN 60  
AGGGCGTCCA CTGCCCCCACC ACCGTCCACA GCAGCTGTCT GAGCCCTCAA TCCCCAAGCT 120  
GGCAGCTGTC ATTCAGGACC CCAACCCCTC TNAGCCCTC TTTTCCCACA TTCATAGCCT 180  
GTAGTGCCCC CTCTAACCCC CAGTGCCACA GAGAAGACGG GATTGAAGC TGTACCCAAT 240  
TTAATTCCAT AATCAATCTA TCAATTACAG TCCGTCCACC ACCAAA 286

SEQ ID NO:6451

LENGTH:97

01873

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07617

SEQUENCE DESCRIPTION:

GATCTGTGCA GAGAGAGATG GCAGCCACTC CCTTCAGTCC TCCCAGATT CTGTAGCTAT 60  
TTATGTAGCA GGCTCAATAA AATGTCTTCT CTCTAAA 97

SEQ ID NO:6452

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07619

SEQUENCE DESCRIPTION:

GATCNNAGGC ATNNTTCTT CAGTCAGAGC ATTCAATCCT CAAGCCATTC ACACATTAG 60  
GCCTCATGCT TTNTCTGTG TTTAATCACA TCCATTTCCT AACTCATTG AGN 113

SEQ ID NO:6453

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07620

SEQUENCE DESCRIPTION:

GATCATAAGT CATTCCTC CCCTTCCAGG CCTCCTGCTA TATTTGGGGG ACCTGACTNG 60  
NTTNGCTGGA GTCCCATGAG GATGTGGGCC CNTTAATAAN GGATAGCAA CAGGCAA 118

SEQ ID NO:6454

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07621

SEQUENCE DESCRIPTION:

GATCCCAAAA TCCAAGGATG CTTGGAATCC CTTATATAAA ATGGCATGGT ATTTGCATAT 60  
AACCTACATG CATCTTCAA TATGTTAAAC CATCTCTAGA TACTTATAA TACCAAATAC 120  
AATGTAATGC TATGTAAACA GTTGTTACAA TGGATTGTCA AAGGCAAGCT CTNCTTGCCC 180  
ANTNCGGGCC AANTGNNGG TNCATGAGCA AATTAANTNN NTGCTGGTAT TTN 233

SEQ ID NO:6455

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07622

SEQUENCE DESCRIPTION:

GATCCGAATT TCCTGCTCTA AACCTCCAC TGCTTTCTGC TGTTCCTACT GAGGAAAGAG 60  
GATGTGTGTC ATTAAAGCTT TGTGGGACC TGTCACAGTC AAGGTGGGTA TAATTATGTT 120  
TAATTTATTG AAGTGTCTT GGCATCGTC TTTTCAAAT TCATATATNC TATCCAGAAG 180

01874

2153480

ANGTGNATTC ATTNNNCATT ATNAAAAAAN ATAAAAATATT ACCAGATAAA GCTCANCAC 240  
NCNCTCTNCC CCN 253

SEQ ID NO:6456

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07623

SEQUENCE DESCRIPTION:

GATCTTTCCT ATCAGTGTA TAAAACTCA TATTATGGCA GAAA 44

SEQ ID NO:6457

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07624

SEQUENCE DESCRIPTION:

GATCAGGCAG GGTGCCATTN ATTGTCTTTC TCTCCTAGCC CCCTCAGGAA AGAAGGACTA 60  
TATTTGTACT GTACCCTAGG GGTCTGGAA GGGAAAACAT GGAATCAGGA TTCTATAGAC 120  
TGATAGGCC TATCCACAAG GGCCATGACT GGGAAAAGGT ATGGNAGCAG AAGGAGAATT 180  
GGGATTNAG GGTGCAGCTA CGCTCACCCT AAACCTTTGG TGGCCTGGGG TATGTCTTGA 240  
GGCCCAGACT GTTAAGCAGG CTCTGCTGGC CTGTTTACTC GTCACCACCT CTGCACCTGC 300  
TGTCTTGAGA CTCCATCCGN 320

SEQ ID NO:6458

LENGTH:179

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07625

SEQUENCE DESCRIPTION:

GATCCAAATN AGAACAGATT GGTTATTGCA GGTATCACAG CCTAAAGAAA TTATCTTTT 60  
GCAAAAGAAA TATTAAATGA TTAGCAGTC TCCACGTGTG TTAATGTTTC AAACGTGTAT 120  
CATAATGTGT ATAATTGTGT AACAAAATTG TCTACAATAA ATCTNTTGGT ATTTGTAAA 179

SEQ ID NO:6459

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07626

SEQUENCE DESCRIPTION:

GATCCATTCTG CCCCAAGGGG ACAACGGGGT GTNAGNGGAG TAAGGGGTGG AGGTAGGGGC 60  
CAGAGGGGCT TACACGATAT CCCATACCTT TAATGCCTTT GGCCTTCCAT TCTNATTTN 120  
CTNATGAGAA TATTGCTGGC CTGCTTTCC CTGGTAGGTA TTTGCCAGGC CCAATGCTTT 180  
AACCTTAAGC TGATACTTTG CTTTAGATGT CAGTCTCGTT ACCAGCAGCC TTTTGACCCA 240  
ACTACGGCGC TCTATATTTA AGTNGAGGGA TTTTNANCCA TTGTGCATGG NAAAAAGNTG 300

01875

2153480

TTCATGGGTA CNATNGTAAG NAAANNTAAA ANTTTTN

337

SEQ ID NO:6460

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07627

SEQUENCE DESCRIPTION:

GATCGGTTGN GNCATGGAGT GGGGGCTTCC AGGTGGACCT NCCCGGCACA CATTCCATTT 60

NTTGAGCCCC AGTCCTGCCC CCCACCCNAC CCTCCCTACC N 101

SEQ ID NO:6461

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07628

SEQUENCE DESCRIPTION:

GATCCTTCTT GGTTAGTATT ACTTGTNCCG GAGCAATTCT NATTCCTCGT TTAGACATTG 60

NNATTCCTT CGTTGGAGCT GTGAGCAGCA GCACATTGGC CCTAATCCTG CCACCTTGG 120

TNGAAATNCT TACATTTN 138

SEQ ID NO:6462

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07629

SEQUENCE DESCRIPTION:

GATCTNATTA GNNTAGTAAT GTTTCCCTT TAAACAGATT CATCATTATC CCTAAAGTAT 60

TGCTGTATTA ATACTGTCTT CTAGAAAGTA TACACCAGTN CCTACTTTCC TCCGATATCA 120

TTAGCTGTTT TCNGAAACTN AATTCCTCT TCAGAGATTN CTCATATGTN TN 172

SEQ ID NO:6463

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07630

SEQUENCE DESCRIPTION:

GATCCACAGA GTTCATAGGC ATGATTAAAT GGTAGTAGTT TTCCACCACG AAGTTTGGGA 60

ATAATTTGTC ACAAGCAAT ANGGTAATTA GAAAAATAAC CTTTCAGAAG GAGACAGTTT 120

CTCCAAAGCT TGGGTACTTT CGCTTAATAT TAAANAGTGG ANGGAATTTT TTNCCTGCCA 180

GNCAAAAGGC AGNAGGTGTA TTTCTACACC ATGNTAGGC AANTNNTTTT TTNCCTAN 239

SEQ ID NO:6464

LENGTH:213

TYPE:nucleic acid

01876

2153480

TOPOLOGY:linear

CLONE:HUMGS07631

SEQUENCE DESCRIPTION:

GATCTGCATT TAGCAATGTG ATGTCAGTAA ATGGACATAA CAGGATTGTT GTAAAGGTTG 60  
GGCATGATGT ATGCAAAGTA CTGGCCAGGG TAGACTAATA ACTGATGGCA TTTATATGCT 120  
GTGCTGGAAT ATTGTTACCA AGCTGATGTG CCGTTCTCAC CCNGGGNGAA TACTGGTTTT 180  
GTCATTTTCAT AAATGATATT TTTATAANTA AAA 213

SEQ ID NO:6465

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07632

SEQUENCE DESCRIPTION:

GATCTGGCCA AGAATGAGGC CCTCCCAACA CTTTCACTCC CTCTCCAAGC CTTGATGGGA 60  
CCTCCACTTA TTTAGGCCTN ATGTGCTTTG AAGAAGCTTT GAGAGCCAAT NTGTCTTCCA 120  
CGGGTCTCTT TTTTGCTACA AGTAATCAGC CCCATGTNTT CTCTTAAACT GAGAATTGCA 180  
CCGGGGGCAA TTCCTGTTTT CTAAGGTGGT CTCTGCTGCT ATTTAACAAC CCAGAGTAGG 240  
CCTCTGTNAG GCTTCAGTGG CCTCAGAAAC CAGAGGGTCC AGATAGGGGG CCTGCTTGGG 300  
CCCTCTGCTG NCAAACTGCT TAAAANTTN 329

SEQ ID NO:6466

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07633

SEQUENCE DESCRIPTION:

GATCCACGTG TGTGGCCATA TTGTAACACA TTTTCTGCA AATNACCTCT TTCATTTAAC 60  
AGCCCTTATT CAATGGCCTT TTNCTTTTTC AGTAGTACAT ACACATCTGT GTCATTNGTT 120  
GAATGACGNC ATGAATGTTT TGTAGATAAA ATATAATTAA ANGNTTTTAA GCATTCTCTNA 180  
CTCATAGATA TTNATGTTAG CACCAAATTT GNTGTGCAAT GANCCTCCCT ANATAN 236

SEQ ID NO:6467

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07634

SEQUENCE DESCRIPTION:

GATCTATGCC TTAGTGTTGT TTTTNTGTG TGCTTTGATG TAAAAGCAAG AGTATTTGGA 60  
GCAAGAAGCT GCAATGCGCC AAATACACAN TAGGCCTTTC NTTTTATCATT CATACGACAT 120  
TTCTGGTTTA GGTGTATGTA GTTGGGCCAT GTTACTTGTC CAGAGGAAGA GNCTAAAGAT 180  
ATACGGNTAA TTTTITAGTC CNTAATGCTG TTTTGNTTAC NTNCTNTCAN GGTTATTTN 239

SEQ ID NO:6468

LENGTH:82

01877



TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07635

SEQUENCE DESCRIPTION:

GATCGAGCAA TTGCAATCCA GCCTGGGCAA CAGAGCGAGA CTCCATTTCA AAAAAAGAAT 60  
CAATAAAAAT GTTAAAAGCA AA 82

SEQ ID NO:6469

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07636

SEQUENCE DESCRIPTION:

GATCCGTAAG GCCATGACCA AGGAGGCCAT CCGAGAGCAC CAGATGGCCC GCACTGGCGG 60  
CACGAGACAG ACCTGTTTAC CTGCGGCAAG TGCAGGAAAA AGAACTGCAC CTACACACAG 120  
GTGCAGACCC GCAGCTCTGA TGAGCCCATG ACCACCTTTN TTGTCTGCAA CGAGTGTGGA 180  
AACCGCTGGA AGTTCTGCTG ACCCCTTG TG TAGATGTGCT GCAGCCTTNG GCCTTCNCGG 240  
GCCACGTTCT TCGTTGACAN AGGTTNTNTT GGGGNCCCCT AGGAAGGCGG TATGTNCCTN 300  
GCCNTTNAAN CTTGNCTGGN TTGGATTGNA NCTTTTTTGN CCTTTTTN 348

SEQ ID NO:6470

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07637

SEQUENCE DESCRIPTION:

GATCGTGAAA TCTAAGGCTG CTTGATGTTT TGATGCTTGT NAATGCCGTC GTGCTCTGTG 60  
ACTCCACGAA ACGCCAAGGA GCTTCTTCCG GACGNCTCCT CTTCTCTGT AACATACGTG 120  
TGAATAGTCA AGGTTTAATT TTNCTTTAAT CTAATAAAGT CGAAGTGGGA CTNTTAAA 178

SEQ ID NO:6471

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07638

SEQUENCE DESCRIPTION:

GATCCAGCAC ACCTCCTCGG TTTTTTTTC AATAAAAGTT TAGAAAGAAA 50

SEQ ID NO:6472

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07639

SEQUENCE DESCRIPTION:

GATCTCTGTG AAACAAAATN AAGCAAGAAC GGAGACGCTG AATAGTTTTA TTTCTNTATT 60

AGAAACTGTG ATTGGAACAA TTGAAGAAAT AAAATCATAA CAGAGAAA

108

SEQ ID NO:6473

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07640

SEQUENCE DESCRIPTION:

GATCTGAAGA AAGCAGCAAT ATCTGTNACT AGAGAACATT CCCATGTTTT TAAACTCTTC 60  
 ANTTCTTAGA TGCATTTAAN TTCTTAATGC AAATNACGTA GCAATTGAA AACTTCTCCG 120  
 TATTACTNGT GTTAAAAATG TCTTGCTTTA AATACAANNC AAATGGTAAA GGGGATTATC 180  
 TTTGGTTTAG ATGGTTAANT ATNATTNGN 210

SEQ ID NO:6474

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07641

SEQUENCE DESCRIPTION:

GATCAGCAGG ACTGTCTCCA GCACGGAGCT GACACTGTTC AGCTGCCTCA ACTGGTAGAC 60  
 GCTCCCAAGA AGTCAGAGGC AGCNGTCGGG GCGGAGGTGT CCATNACCTC CCCAGGACAG 120  
 AGCAAAAAGT TCTCCCTCAA GAACAGAAAC GTTTTACCNN CTATTGTATG ACCTTTGCTG 180  
 AGGGTATGTC CTGCTCCTTT CCACCAGTGA TTTGTATTAA GNCAGCACTT ATATTGTACA 240  
 ATACTTCAGN CTGTTTTTTT TAAATACATA AAACCTTATG TTAAAAAAGT CTATTANCAT 300  
 GGGCAAA 307

SEQ ID NO:6475

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07642

SEQUENCE DESCRIPTION:

GATCACAGGT TAGGGGTTTC TCTAGATGGG GGTTCCTGAAA TTTGCAGTGT CTGCTCCTGG 60  
 GAGGCAGCAC CAGAAAGGGC ACTGAAATGT ACTAGCTGGA TGTNACCCAG TCTTAATAAN 120  
 CAGGTTTTCT AATCCAGAAA 140

SEQ ID NO:6476

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07643

SEQUENCE DESCRIPTION:

GATCAACTTT GTATATTCAC GTGTATTAAT ATATTGTGCA CTAAATGTTT TGCCCTTGTT 60  
 TGCTATTATA TGGTCAAGGC ATTTATCAGC ACTATTGTAA TGAATCATG TAAGTGGCAT 120  
 GGGTCAGGGA AAATTATTTT CTACTTTNCT GCCTAATTAA ATTNCTGTTT TCCAGTATTA 180

CATTAAA

187

SEQ ID NO:6477

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07644

SEQUENCE DESCRIPTION:

GATCTTGAT ATTTNATTTT TAAAAAATA GAATAAACAG AGAGGCATAA NCATATCTTA 60  
 GAGTCCAAGT GGTAGTGTTC AGCATTGGAT ATAATAAATG GATGTTTAC AAA 113

SEQ ID NO:6478

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07645

SEQUENCE DESCRIPTION:

GATCTCATT TGGGCTAAAA TAAGACAATA TTCAAAGGTC AGAGATATCT AGCCAGAATC 60  
 TNATGGAGGC TGGATTTTTCAG ATTTTNTNAC AGAATTAGAC AGAGGAACAC AGAGGGGACA 120  
 GGCTCAGTTA GGGTGGAGGT GTGGGGTAGG GAAGCAGGNC TTGATATAAN TNATTGGAAT 180  
 CATTGTCTTT TAANCCAGTG GTTTATGTCA GGGTATAGCG TTTCANGGGA TTTGAGGGTC 240  
 AGATGGGGNA ATGTAGCCTC TTATTTTGCC AGTGTN 276

SEQ ID NO:6479

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07646

SEQUENCE DESCRIPTION:

GATCTGTAC TGTNTCCCGT CACGCCTTGA TGGGACCGTC TAGTTGCTGG AAAACAACT 60  
 CAGGGCTCCC ACTGATTCTA CATTATGGTG TGTTGTACAA TTATTCATT ATATATNACA 120  
 AGGTAATANT AATAGANATA AAATCCACAG TAANTGCAAA 160

SEQ ID NO:6480

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07647

SEQUENCE DESCRIPTION:

GATCATAAGT NTTAGGACCA AAGGTGTTTT TAATGAGATA ATCTTTTNA TTTNNTAACA 60  
 AGAAAGGAAA TATTCACTTT ACATTTTAAC ATCAACTTTT AAGTGATATT CAGANTTAAT 120  
 TGACCATGGT GATACGTTGT AAAANGTTTN CATATTAN 158

SEQ ID NO:6481

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07648

SEQUENCE DESCRIPTION:

GATCCAAAAA AAAAAAAAAAC GAANANAATT NATCCTCACA AATTGGTGTT CTAAATATCT 60  
TAAGANCCTA ATTAATAGC TGA CTACAAA AAAAAAAAAA AAAATNCAAA AN 112

SEQ ID NO:6482

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07649

SEQUENCE DESCRIPTION:

GATCCTGTGT GGGCGGTGTT TGCATCTTCA GTGGCCACAA GCATAATAAA GCCCCTTTGC 60  
CTTTCTCTGT ATTATATTCA ATACAATACA TCAATAGTCT TGA AA 105

SEQ ID NO:6483

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07650

SEQUENCE DESCRIPTION:

GATCAGATTT AAAGNCTGGA TTCTATCTAC ATAAGTCCTT TNAATTCCAC CAGGGCCAGA 60  
GCAGTCCAC CACTGTGCAC TTAGCCATGA TGGCAACAGA AACCAAGAGA CACAATTACG 120  
CAGGTATTTA GAAGCAGNGG GNCAACCAGA AGGCCCTTAA CTNTACCAG TGCATCACAT 180  
CTGCACACTC TCTTCTCCAT TCCCTAGCAG GGGNGGCTAG CTCATTNAC NGGGTNNAGA 240  
ANCTGAGGNC CN 252

SEQ ID NO:6484

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07651

SEQUENCE DESCRIPTION:

GATCACGNGT AAAGAGAACT GTTCCTGCC CTAAA 36

SEQ ID NO:6485

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07652

SEQUENCE DESCRIPTION:

GATCAGCCTC ATCAATATTG CCGTCATCTG TTAACTCTC CCAGTATATT TCCTCAATGT 60  
CTGTTTACTT AAAATTTTGT GGAGTGACAT AATTAATAAG NAATAAAGTC TGAATTATAC 120  
ACAAA 125

2153480

SEQ ID NO:6486

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07653

SEQUENCE DESCRIPTION:

GATCCACACT GGGGNGAAGC CTTATNAGTG TACGANATGT GGAAGAGCT TCAGTCAGCA 60  
TGCGGGCCTC ANCTCCCACC AGAGACTCCA CACCGNGAG AAGCCATATA AGTGTAAAGN 120  
GTGTGGGN 128

SEQ ID NO:6487

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07655

SEQUENCE DESCRIPTION:

GATCCAGAGA GCTTCCTGAA GGACCTGTTG AACTCAGTCC CCTGACCACC ACACAGCAGC 60  
TGCGGGCGCG AAGAGAAGCT GGCTTGCCTT CCACCCCTCG TTCTCCCTCC TTGTGCATTA 120  
AGTTCCCTCC GNGGGATGCT GCATTGGTAC CCAGCCCTCC NCTATCTCAT TTTTCTTGGN 180  
GTGGCTTGGG GTTTTtaggc TTCCNGTTT ATCTCGTGTG TGTGGTGCAC CAGCTATGAG 240  
GTTGTCTGTA ANCNAAGCCA TCAAAGGNC TNTAAATANC TAGGNGCCAT GAGTNGTCCC 300  
GGNCANCTTT CANAACTTGA GTNTGANAN 329

SEQ ID NO:6488

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07656

SEQUENCE DESCRIPTION:

GATCTGTACT GTAATTTTGT TTGTAATCCT GTATATNATG GTGTAATGCA CAATTTAGAA 60  
AACATTCATC CAGTTGCAAT AAAATAGTAT TGAAAGTGAA A 101

SEQ ID NO:6489

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07657

SEQUENCE DESCRIPTION:

GATCATGTAT ATAATTGTAA CATCACATTG ATTTTACGGA AGATGTTATA TGGNCTTTAA 60  
TGACACAATG TTTAGNGATA AAATGTACAT TATTTTGTT CAGTTTTTA AAAAAANTAT 120  
GCTTTAACA AATTCTTAGG AATNCTTTA AGCAATGCAG GTATTGCGAT ANCTGTAGNT 180  
TTTACAATAA TGTACTCTA CAGNTGGGAN AATNN 215

SEQ ID NO:6490

01882

2153480

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07658

SEQUENCE DESCRIPTION:

```
GATCTCTTTG TATTCTCTTC AAGCCCAAAC CAATTCTGTN CCTTCAATCT AAATAGTGGT 60
AATATGAATG TTAAAGAAAT GAAATAAGAA ACATGTGCAG GCACTTTGGA AGGTGCTAAG 120
TGA CTGCCCT AAGGAATGAA AAGCAAGGGC CAGGTGGGAG TAGCCAGCG AAGGCACTTG 180
GGCTGCCAGG AACAGGNGGC GTGGGAAACT CTGGCTTAGG NAAACATGAA CACNGGGGCA 240
ACAGCGGCAN ACTGTTGTTC GAGTTAAATC TAANTCTCAG GCTCTTTNAC GGTAANGGG 300
TTANGGATAC TCCATTNNGA TGAAGANAAG NGTGAGGCTG ANNGTAANGC ACATGGCAGN 360
TNNN 364
```

SEQ ID NO:6491

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07659

SEQUENCE DESCRIPTION:

```
GATCTTTCTT CTCCTTTAAG CTCTTTGTTA ACATTTCTCT AGACGCAATT TATTGAAAAT 60
AAAGATTTC TGT TACTCA TGAAA 85
```

SEQ ID NO:6492

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07660

SEQUENCE DESCRIPTION:

```
GATCCTCATT TATGTTTGTG GTTGGAAGC AAAGCTAGGT AGCCATTCT TCTGTTCTAC 60
CAAGTTATAA TAGCATT CAT TTCCCTTTAT ATTTCCCTGA AATAAGCAC ATTCCACTTA 120
AA 122
```

SEQ ID NO:6493

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07661

SEQUENCE DESCRIPTION:

```
GATCCTACAT TAAGTCATT TGTNAGAATG ATGTTTGTGT TTGTNTAGAG TTGGCTGACC 60
TCCAACNT GGGGTCAAGG AATCCTACTG CCTNAGCTTC CCAAATAGCT AGGACTATAG 120
GCATGCACCC GGCCATGTGT TTTATTTATA GCTCTTAAAG CCCAGATGAA GAAATCACAT 180
TTTTNCCCAT AGTGAAGAAA CATTGAGCCA TTGCTTAGTC CTTNNGGGGG GTGNGTGTCC 240
TGTTTTTCAAT AGATTAGNGA GACCCTGTGT GGGCCACAGT TAATATANNC CATTATCACT 300
TTTAAGGTAA CCTGCACATC TTAGGTTTCA TAATTNCCTT ATTGTTCTNG NCTCAAANTT 360
GN 362
```

01883

SEQ ID NO:6494

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07663

SEQUENCE DESCRIPTION:

GATCGGGGCA CTGCAGGGGC CGAGCCATTT TGGGGGGCCC CCCTCCTTGC TCTGCAGGCA 60  
 CCTTAGTGGC TTTTTCCTC CTGTGTACAG GGAAGAGAGG GGTACATTTC CCTGTNCTGA 120  
 CGGAAGCCAA CTTGGCTTTC CCGGACTGCA AGCAGGGCTC TGCCCANAGG CCTCTCTCTC 180  
 CGTCGTGGGA GAGAGACGTG TACATAGTGT AGGTCAGCGT GCTTAGCCTC CTNACCTGAG 240  
 GCTCCTGTGC TACTTTGCCT TTTGCANACT TTATTTTCAT AGATTGAGAA GTTTNTACA 300  
 GAGANTTAAA AATGNAATTA TTTNTAAA 328

SEQ ID NO:6495

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07664

SEQUENCE DESCRIPTION:

GATCCTGTTT CTACCAACAC TGCACCTTAT CCCAGGAACC TGCCCTAGAC CTCCAGAGAC 60  
 CATATTTNNT CTCCTCCAT TTCTACCCAG ACCTCCAGGC CTCCTTCTGG AATNATAGAA 120  
 CCGTAGAATT GGAAGGAATT TNAGAGGGGN TCTAGTTGGA GTTGTGTCCA ACAGAATTCA 180  
 TTAACACCAG CTTGGGCTTG TTTTTCCTCC TCCCTCTGGA CTTTTTAAT CTTTCCTCC 240  
 ACCTCAAAAA ATACTTACAC ACAGATTCTT CTTGTACAGG CATCAAAACC AACTNCTNTG 300  
 CCCCTAAGGC TGTGTNNGNG TGGTNTCCAG NNANCCNTAC CNCAGTCANT N 351

SEQ ID NO:6496

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07665

SEQUENCE DESCRIPTION:

GATCTGGTAG GGGAGAAATG GCGAATGTAA TACACATGAN ATGGTATATC CTTGCAATGT 60  
 ACAGTATCAG AAGGTGGTTT GACAGCATCA TAAACAGGCT GACTGGCAGG AATGAAAACA 120  
 AA 122

SEQ ID NO:6497

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07666

SEQUENCE DESCRIPTION:

GATCANTTGC AAACCTCCCC CAGCCCCTAC CATCCAATNT GGACGGAAAA CANGAACTGC 60  
 CTGAAGAAGA GTCCAAGCTA CAGATACACA GCGTGTGCAT TGCGGCTGTC ACCTTCCTNC 120

2153480

TNCCAATTCT GTATCCTCAG AGATGCTGCG TGGATGTTTC CTTANCCTCA GCTGACTTCC 180  
CTGTGAATNT CTAATGCTAG TTCANGGGCC TNCNGGAAAT TGANTTN 227

SEQ ID NO:6498

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07667

SEQUENCE DESCRIPTION:

GATCTTGCCC TTCTCACTCC AGAGGCTAGT GGTCACAGAC AGCTGGGAAT GGCAGCCACA 60  
GAGGGTCCCC TCTGGGAGAA ACAGCTTCAC CCCAGCCTCA GGGCCCTGGG CCATCACTGC 120  
AGTGGCCCTG GGAGGTGAGG AAGAAGCTGG CTAGAGGAGG GGGCTCCAC CTACCTTTTA 180  
TTTAAGCCAG TATTCTTTGT TCCTGCTTGT AATAAACTT CAGTTTATAA GAGTTAAA 238

SEQ ID NO:6499

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07668

SEQUENCE DESCRIPTION:

GATCTGTCAT AACTCATTTT AAACGTGAA ATATGCCATA TGAAGAGGNN TTAAGAGGCT 60  
GNGAACTCA TATTTCAACC AAATCCAGCA TTAGTTTTTC TTAGGTCTAA TANTTCCTNG 120  
TTAATAAAGA TTAAATGCA AA 142

SEQ ID NO:6500

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07669

SEQUENCE DESCRIPTION:

GATCTGTCAT TGTCTCCCAT CACCCCCAAA TGGGCCCTC TCGTTGCAGG AAAACAAGCT 60  
CAGGGCTCCC ACAGTTTCTA CATTATGGTG AGTTGTATAA TTNTTTCATT ATATATTACA 120  
ATGTAATAAT AATAGAAATA ANGTACACAA TNNNTGTAAA 160

SEQ ID NO:6501

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07670

SEQUENCE DESCRIPTION:

GATCTGCCCG AGACTCCCAG AGGGTAATGC CACTCCCACA ATCTCAGGCC TGGTACCCAT 60  
CCTNTTCCA CTGTGAGCAG AGCCAGAAGG TAGGTCTNTT CAGAGTCTGT NNCCCTGGAC 120  
CTGGGGNGTG GATATGANAT GGGATATCTC CTTCCATTCC CCGNTCCAGG GGAGAGTCAC 180  
TAGTTGTACC CTACTCCATT AGGTCCCAAA TAGGGGCCCA ATTTACCTG TATNAGGNTC 240  
TGTGCATNCC AGCTGCCNNA AATNTN 266

01885



SEQ ID NO:6502

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07671

SEQUENCE DESCRIPTION:

GATCCAGACT TAGGGACGAG GCTGTCACTG GTGGGCACCC TCTGTCCTG TTTGTGTGT 60  
TGAATAGTCT GAAATNCTGT GACTTTTTTT GTGTGAATAA AGNTATGAAA CTCTGAAA 119

SEQ ID NO:6503

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07672

SEQUENCE DESCRIPTION:

GATCTTCGTG TGAGCCGCGN CGTCCGNCN GACCGAGCTG CCTTCGCGTG CCCCCGNCCT 60  
GTGTTTATA AAAAGAAAGA TTCTCGGAAA 90

SEQ ID NO:6504

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07673

SEQUENCE DESCRIPTION:

GATCTGTCAG TGTATCAAAA CAACATAAAT AAAGTTGAAC AACTGATACG CAAAAAACA 60  
AA 62

SEQ ID NO:6505

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07674

SEQUENCE DESCRIPTION:

GATCAAGTTT GGTGAGTTT TGTCACCAAG CTTTGTAAT AAAGTGGTTT TCATAGCTTT 60  
TTGGAGATGA AA 72

SEQ ID NO:6506

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07675

SEQUENCE DESCRIPTION:

GATCTTTTTT CAGAATGTTG GAAAATCCTG TAAATGCAAA TAGTCAATAC TGTATTAAAT 60  
ACGTGCACTT GGNGTNTGCT TCGCTTGAC AGTTGTAAAT AATCAGAACA TATGNAAAAG 120

2153480

GTACCCTACA GAGGAAATTC TGATACAGAT TATTGCTATA TTATAACCTN TTGCTGTTGA 180  
GCGGGCTGTA GGTAACTAA TGTGTGGTT TGACTATTAA A 221

SEQ ID NO:6507

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07676

SEQUENCE DESCRIPTION:

GATCTTCATT TTTGTAATAA AACGGNAGAC TCATCCAGTA AA 42

SEQ ID NO:6508

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07677

SEQUENCE DESCRIPTION:

GATCTTAGAC TTCCCATCCT CTAGAACTGT GAGAAATAAA TTCCTGTTGT TTATGAGCCA 60  
AA 62

SEQ ID NO:6509

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07678

SEQUENCE DESCRIPTION:

GATCTGCCAT CTAGAACTCA TATTCTAAAG GGCAGTGNTT TCTCAGAACAA GTGATGTTCT 60  
GGAATATGTA TTATTTATTT TAACACTTTT TTAATAAANT CTTTATTATA AACCAAA 117

SEQ ID NO:6510

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07679

SEQUENCE DESCRIPTION:

GATCTGTTTA AAAGATTAAA TCTCAAGTTA ATTAAAAATA AGCTTTTCAA AAATGTATTA 60  
TATTTATAAC AAATATACTG TAAATAGANT AAAGACATGC TATTCAGTGT AAA 113

SEQ ID NO:6511

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07680

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTCTCCCAT CACCCTAAGA TGGGNCTGTC TAGTTGCAGG GAAAGAAGCT 60

01887

2153480

CAGGGCTCCC ACTGATTCTA CATTATGGTG ANTNGTAGNA TTATTTTATT ATATATTACA 120  
ATGTCAATAA TAGAAATAAN GTGTGCANTA AATGTCAAA 159

SEQ ID NO:6512

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07681

SEQUENCE DESCRIPTION:

GATCAGCCGG AAGAGAAAAT NAAGACCCCA GAGACATTTA TTGGGGAGTA GGATGTGGCT 60  
GAGTGCTTTT TTTTGGCCA GACTAGCGGA TTCAGTCCTG GAAGAGAGTA TCATATAATG 120  
AGNCCCACAG GCACTGGCAC CCTTGGGTTG GNAATAGANG NNGNCCATGG ANTGGCGAAA 180  
ACCAGGGATT CCAGCTGGGG NATAGTANCT TGAAGGTGN 219

SEQ ID NO:6513

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07682

SEQUENCE DESCRIPTION:

GATCTTGACC TACAGTTTGA AAAACAGAGT ACTGAAGAGT CTTGTTTCCT TTATTTAGAA 60  
CAGTGCAAGG ATGAGTATCT GGGTAGAGTT GTGCGTTGTA CATAACCTTT GATAGTCATA 120  
TAGTTGAACC AAAAGCAANN TCTGTAGTGN CATTGAAAAA ACATTTTGAC TTGATTATC 180  
CTGNCAGNNT NCNNTAATTT TTGGCTGGCT AATNCAN 217

SEQ ID NO:6514

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07683

SEQUENCE DESCRIPTION:

GATCTCTGCT CACGTTGCCT CCCTTCATCT TCCTGCATAA GTGGAAGCAG CCTGAAGCCC 60  
TCACTGTTTC TTGTACAGCC TGCAGAGCCG TGAGCCAAAT AAAGCTCTTT TCTTTTAAA 119

SEQ ID NO:6515

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07684

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGC ATCTGGCATT TCCCTGCTT GCACTCACTC TGCTCTGGTG 60  
CGCTGTGAAG AAGGTGCCTG CTTCTCCTTT GCCTTCCACC ATGATTGTAA GTTTCCTGAG 120  
GCCTCCCTGG CAATGCAGAA CTGTGAGTCA ATTAACTTC TTTCTTTAT AAA 173

SEQ ID NO:6516

01888

2153480

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07686

SEQUENCE DESCRIPTION:

GATCACCATG TNAGCCTTAG ACCAAGAAGC TGGCTAGTCC TTNCTGTGAA GCTAATACAA 60  
TNGNCATTTC CAGACAAATT TAAAGGNAAC ACTAAGGCTG CTTCAAAGAT TATCTGATTG 120  
CTTTAAAATA TATGTCTATA TACACAGGCA TGCTCTTTT TTAAGTGCTT ACATTTTAAT 180  
AGAGATGANT CAGTTTTNGA ATCTANGCTG TTGCCCAAG NTGANGCTNC CAGGGTTN 238

SEQ ID NO:6517

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07687

SEQUENCE DESCRIPTION:

GATCTGTTTT TNACCACTTC ACTGAAAGAC ACCATTATC TACCCAAGGG CAGAAAGTAG 60  
AACTTACTAT TCATTAAATG TTGACACAA TTGGAATTGT CTTTAATTTC TGTCAGAATG 120  
CTATTGAAA TGTGAATTGC ATGACTTGGT AGCATATTCT TTTCTGCAA AAATAGGCCA 180  
TATTAACCAT GCTTATGACC ANTGCCTGT GCTACTGGCT TTTGGNAAAA ATGGTTGCN 240  
TCAGNTTGGG GAAGTAATNA AAGGANTNCA CCTGGNGNCC CNNGAATAN 289

SEQ ID NO:6518

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07688

SEQUENCE DESCRIPTION:

GATCCCCCAG GATTCTATTN TGTTTAATGG GCTTTTCTAC TAAAAGCATA AAATACTGAG 60  
GCTGATTTAG TCAGGGCAAA ACCATNNACT TTACATATTC GTTTTCAATA CTTGCTGTTC 120  
ATGTTACACA AGCTTCTTAC GGTTTTCTTG TAACAATAAA TTTTTGNGT AAATANTGGG 180  
TACATTNTAA CAAACTCNGT AGTNCAACCT AAACNGTAT NAACGGTGTG TAAAN 236

SEQ ID NO:6519

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07689

SEQUENCE DESCRIPTION:

GATCAGGTCT GCTTTNAGTT TCATTTTGT TTCTTTCCCG TCCCACTCTT TAAAACTGG 60  
TTCCGTGAGA AANGGCAGAA GCCGTTCCGT GTCTCTTGCA GGCTGGGCCG NCTTCATGNA 120  
GTNCGAGGGC GTNCCGTGAC NACGTACATA CGTATGN 157

SEQ ID NO:6520

LENGTH:195

01889

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07690

SEQUENCE DESCRIPTION:

GATCTTTCTG GATATAATGA AGCTTCCTGG AGAAACAGAC TGGCAATCAG AAAGATTGG 60  
 CTGCTTCCGA CACCTCCATC TTGGGCCTGC AGAGGCTGCA GCAATCTGTG AGGCAGCCGA 120  
 ATCTGCGNGG CAGNCCACTC TTCTAGGACA TATGGGTTTC ANNAGGCACC NTTTTGCTAN 180  
 GNAGGCATAN TTANN 195

SEQ ID NO:6521

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07691

SEQUENCE DESCRIPTION:

GATCGAAACC AAGTTATTAT TATCCTTACT GTATTCCATT GCTTGTATCA AAATCTACTT 60  
 TTTTNTAGT AGGAAACTAT GCATTCCCTA TCAGTCCCTT TGATTATCAG GAATGTATAA 120  
 GAATTGTGAT AAAATAGGCC AATATGCTAT TTGGTACCAT TTGTATGTAT TTTANGTGCA 180  
 TAACCTAGGT AAAATAAGNN TAGTTTCTAT GTGTAAAGAA GCAAGTTTA CAGTATGCAG 240  
 ACTCCAGTGG ATGTATTTTA GGCTGTATAC ATNTTTAAGC TCTNTNTGGT ANATAGGGTA 300  
 TACAAACTAN NTGCCTCNA ATNCNAATAN NTTCCGN 337

SEQ ID NO:6522

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07692

SEQUENCE DESCRIPTION:

GATCATTTCA TGGAACTTT GAAGTATCTT TGA CTCTAAC TTGACTTGG TGGTGGACCT 60  
 TCCTTGGTTT TANTAACACC TAAGAGATAT CCTTTAGAAT TACATGTATT TTAGCATAAG 120  
 GAAATTGNAA AAGTAAACA TACTGGTTT TTTCAACAAG ACCATATGTA AATTAAATAG 180  
 TGAAATGTGT ATGNGTTTCA GTAGAACTGT ACCATCAACA ATGTTTCCAT AAATATGCAG 240  
 NGTTCTTCT NNTGTATTGT TATTTACAAT ATTGTTAAAT NGGATGCATT TGCAATNNCT 300  
 CGGNTTCTAA AGNATTGNGG TNCNGANCGT N 331

SEQ ID NO:6523

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07693

SEQUENCE DESCRIPTION:

GATCTGGAAT GGTGTTTTGG TTTGGGGGGA ATTTTTTTTT TTCCCGGCA AATNACATGT 60  
 GTTGTGATG TGAGTATCTG ATGAAAAANC AATGNCAGAA TANCCGN 107

SEQ ID NO:6524

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07694

SEQUENCE DESCRIPTION:

GATCTATATA TGTATAAATA TGTATTTTGT CAAATTTGTN ACTTAAATAT ATAGAGACCA 60  
GTTTNCCTCTG GAAGTTTGT TAAATGACAG ANGCGTATAT GANTTCAAGA AAATTTAAGC 120  
TGCAAAANTG TATTTCCCTAT AAANTGAGNA GTCTCACTGN TAGCGGTTCT TTATTGCTCA 180  
TTTTTTAAAA ANTGGN 196

SEQ ID NO:6525

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07695

SEQUENCE DESCRIPTION:

GATCGGCTCT AGAAACACTG CTTTCCTTC TTTNCTTTTG TTTTCTTTCT NTTATTATT 60  
TTTTAAAGAG TAAACGAAAG TNCTGTATGA ATTCGGACCC AGGCAGCAAC CACAGGNCTN 120  
GGGGTGAGAC CCTCCTCCTC CCAAGNGAGC AAAAAGGACC CATGGCCCCC AAAAAAACCC 180  
CTCAACGAGA ATCCTCAGCN TTGTAAAATG CAAAANTGTC TAATGAATAT TTNTATNTGT 240  
NCCATTTTGT ATAANTN 257

SEQ ID NO:6526

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07696

SEQUENCE DESCRIPTION:

GATCCTATTT AACATGACAA GTAAAATGCT TGCCATAGGA TATTTATATC TAGAACTTTG 60  
ACAGACATAC CTAATCATTG TCACTCAGGC ATCCTGCATA TCATTCATTT ATTCATTGTC 120  
CTATCATTTG TTGANCATTT AAAATGTCCT AGATACTTAG NATATGANTG TTGAATGTCA 180  
CAAACTGAA TGTCACACTC CCTCCCCTTT AGANATTTNC AGCATGGGAT GCGAGCTAAT 240  
GATATGTAAA TAANTACATA TTTNTAANTA ACACAACCNN AAAANAANAN AAACNAN 297

SEQ ID NO:6527

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07697

SEQUENCE DESCRIPTION:

GATCGTGGCC AACGTGGACC TGCCTACGNA GGGTGGGCTC TGACCCAAGT GGGGCCTCCT 60  
TGTCCAGGTC TCACTGCTTT NCACCGTGGT CAGNGGGACT NTCAGCTGAG CTTNAGCTCC 120  
CATGGAGCCA GCAGGNN 137

SEQ ID NO:6528

2153480

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07698

SEQUENCE DESCRIPTION:

```
GATCAGCCTG AGAAGCCACT CAACTTGGCT CACATCGTGC CTCCCAGACC TGTAACCAGC 60
ATGAACGACA CCCNTGTTCT CCCACTCTGT TCCCTCCTCA GGAAGTCCTT TTATTACCAG 120
GAGCTCGGAC GGTGCTTTTG GTGGNTGCGT CTAGATGGAT AACATGACTT CTTCTACCCT 180
AAAAATATCC TATAATACTT TNAGCTGTTT TGGTTCCTCC AGGGTGNATG GTACCNATTA 240
ACCCAAAATA CTGNTTATNT ACCCNTTNTT ACNATNTANN AGTCANTTTT GGN 293
```

SEQ ID NO:6529

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07699

SEQUENCE DESCRIPTION:

```
GATCCACGGG GCCAGGCCAC CCTGCGGGAG CGCCACACGC ATCCACTTCG GATTCAGTGG 60
GTGAAGACAG AACGCTNAGA GTCTGCAGGC GGCTCCTGTG CTTTAAATTT CTGGCTCTTC 120
GGATGTCTTC TAGACATTTA CTATCACTGC ACCTGAAGAA AAAATCACTT TTACCTTCCT 180
AATTTAAAAA GACAAAACAG AAATGTACGT TCCTTCGCTA GCTTTAGTCT TTCTGTTCCC 240
ATTTNATAA ANTCTGAGGC ATTGATAATG NTCNNATCTA AAATTGTAC AGTGTGATTT 300
CNNTNNTAAG NGTTAAANCT TTTANTAAAA GGGGCANGAN NTNAN 345
```

SEQ ID NO:6530

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07700

SEQUENCE DESCRIPTION:

```
GATCCAGAAA ATAGGTACGG TTTTAAAATA TTTNATATAG AAAAGCTACA AAGTAAATTG 60
AGCAATGCTT TTAAAGTTAT CTTTGTTTTA TAGACTTTTT TGTGTATGT ATTACAGTCT 120
TTATAATCTT ATTTAATGNA TATNTGTACT TTCAAGTACT GATGGAGATA GNCTCAAAAC 180
AGTTATTTT TTACAATTAA TCTACAANGG GCATTANTAT TGTNGNCTTT TAAAACATCT 240
GCTGGNTATC TNATNTGCAA TTCNTN 266
```

SEQ ID NO:6531

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07701

SEQUENCE DESCRIPTION:

```
GATCCCACAC ACTAAATATA TGGTTGTTTT GCCACCTTTT AAA 43
```

SEQ ID NO:6532

01892

2153480

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07702

SEQUENCE DESCRIPTION:

GATCTGTTTT TCACCACTTC ACTGAAAGAC ACCATTTATC TACCCAAGGG CAGAAAGTAG 60  
AACTTACTAT TCATTAAATG TTGACACAA TTGGAATTGT CTTTAATTC TGTCAGAATG 120  
CTATTGAAAA TGTGAATTGC ATGACTTGTA GCATATTCTT TTCTGCAAAA TAGCCATATT 180  
ANCATGCTTA TGACAATGAC TGTGCTACTG TCTNTGGAAA ANTGTTTGTC TCAGTTGGNA 240  
ATNCTAANNG NTTCACCTGC GGANNAACG CCCNNNCCN CCCAN 285

SEQ ID NO:6533

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07703

SEQUENCE DESCRIPTION:

GATCCTCTTG TGTATATGCA AATAAACCTA TTATCACTT AAA 43

SEQ ID NO:6534

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07704

SEQUENCE DESCRIPTION:

GATCAAGACA CCTTTTATTA ATAAAGAAGN GACACAGGTG TAGATATGTA TATACAAAAA 60  
GATGTACGGT CTGGCCAAAC CACCTTCCCA GCCTTTATGC AAAAAAAGGG GAGANTCAAA 120  
GCTTTCATTT CAGAAGTGT GCGTGGANAA GTATCTGTAA TTAAAGTTTC GANGTAATTT 180  
AACCTATTTT TAAA 194

SEQ ID NO:6535

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07705

SEQUENCE DESCRIPTION:

GATCAAGCCC TGCTTAAAGT TAAATAAAAT AGAATGNATG ATAAA 45

SEQ ID NO:6536

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07708

SEQUENCE DESCRIPTION:

GATCTTCTGG ATGACCTGAA ATNAGAACTA ATTGGAAA 38

01893



SEQ ID NO:6537

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07709

SEQUENCE DESCRIPTION:

GATCGCCCAA CTGCACTCCA GCCTGGNAGC AAGACTCTGT CTCGAAAAGA AA 52

SEQ ID NO:6538

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07710

SEQUENCE DESCRIPTION:

GATCAGNACC ACTGCACTCC AGCCTGGGCA ATCANAGTAC GACTCCTGGC TCAAA 55

SEQ ID NO:6539

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07711

SEQUENCE DESCRIPTION:

GATCAGTCTG AAGTCGATTA CTAACAGCTG AAGCTGATAA AACCATTAAA GTATACAGAG 60  
AGGATGACAC AGCCACAGAA GAAACTCATC CAGTCAGCTG GAAACCAGAA ATTATCAAGA 120  
GAAAGAGATT TTAATGAATG TGGAATTTTT TCTCTCTCTT TTTTTCCTT TTTAATTAAA 180  
AAAAAAAAGG CTTGGGGTTC ATGGGGTTTT CCNGTCATT NGTGCNCTGG CTGGGATTTT 240  
AAGGGGGAAT TN 252

SEQ ID NO:6540

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07712

SEQUENCE DESCRIPTION:

GATCGAGNCA CTACACTCCA GNCCGCCGAA GCAAGACTCT GTCTCAAA 48

SEQ ID NO:6541

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07713

SEQUENCE DESCRIPTION:

GATCANACAT TTNCTACCTA TGAATNTTGC TGCATACAGA AAGTGCCCTT TCCTCAGGAA 60  
GTTGCTGTGT NTCATTCTT TAGATGGNCT CTTATCTAGA ATACATAGCA GCTCTGCAAA 120

2153480

GAANCAGTTT TAAAAATGG GAACTTCTAC ATTGAAAAGT CCCNTTTTT GTGCCAACTA 180  
TGATTAGTGN GCGGAAGNAN TCTTATTCTA TGGCATATGT ATGGANGGGG GGGGN 235

SEQ ID NO:6542

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07714

SEQUENCE DESCRIPTION:

GATCCTTTTA AATTAAAGC AAGTCCTAAA ATGAAA 36

SEQ ID NO:6543

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07715

SEQUENCE DESCRIPTION:

GATCCAGCGN GCGCAGCAG AGTACCTGCA CAAGGCCGTC TTCAGGGGCC TNCTCACGGA 60  
GAAGNCGGCG CCCGTNATGA ACGTCATCCA CAGCATCTTC AGCCTCGTGC TCAAGTTCCG 120  
CAGCCAGCTN ATCTCCCAGG CTTGGGGGCC CCNNN 155

SEQ ID NO:6544

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07716

SEQUENCE DESCRIPTION:

GATCAAATAT CACTCTCCTA CTTACAGGAC TCAACATACT AGTCACAGCC CCTATAACTC 60  
CCNCTTACAA TANNTANCCA CAACCAAAAT GGGGCTCANT CACCCAACCN 110

SEQ ID NO:6545

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07717

SEQUENCE DESCRIPTION:

GATCTGGTTG TNTAGAAGCA TGCAGCACCT CCTGCTTCAC TCTCTCTGTC TCTCCTGCTC 60  
CACCATGGCC AGAAACGTGC CTGCTTCCCC TTCGCCTTCT GCCGTGATTG TAAGTTTCTT 120  
GAGGGCTCCC CAGCCATGCT TCCTGTACAG CTTGCAAAAC TGTGAGTCAA TTAAACCTCT 180  
TTTNTTCATA AA 192

SEQ ID NO:6546

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

01895

2153480

CLONE:HUMGS07718

SEQUENCE DESCRIPTION:

GATCATACTG GTTTGTTTCT TATTTTGATT GGAGAAAAAT NAAATTGCTG CATTTCGCAG 60  
TGACCCATTT AAA 73

SEQ ID NO:6547

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07719

SEQUENCE DESCRIPTION:

GATCAAATGT GTGGCCTTTG ACTGAAATCA GCCAGCCCAT GGCCCCCAAT AAAGGCAGCT 60  
GCCTACTNCT CCNTCTGAAA 80

SEQ ID NO:6548

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07720

SEQUENCE DESCRIPTION:

GATCCANATG CGTGTGGCAG CCNAAGGATT TGTGTAGGA GCAATGNCTG TTGGTATGGG 60  
CTATTCCATG TATCGGGAAT TCTGGGNAAA ANCTAAGCCT TAGAAGAAGA GATGN 115

SEQ ID NO:6549

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07721

SEQUENCE DESCRIPTION:

GATCATAGCA TATCTACTAT TTTATTATTT GATTTTAAA ATTTAACATT ATATTATGGG 60  
TAACCTTACA TGTCAATAAA CAATCCACA TTGTCAAA 98

SEQ ID NO:6550

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07722

SEQUENCE DESCRIPTION:

GATCAACTTT GGAATAAAGT GATGCCCTTC AAA 33

SEQ ID NO:6551

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07723

01896

## SEQUENCE DESCRIPTION:

GATCCACTGT AATATTTAAT AAAAAATGTT ACTATCTGTA AA

42

SEQ ID NO:6552

LENGTH:24

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07724

## SEQUENCE DESCRIPTION:

GATCAAATAT CACTCTCCTA CAAA

24

SEQ ID NO:6553

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07725

## SEQUENCE DESCRIPTION:

GATCACGACC CTNTCACGTG CACCCANTTA GNGTTGTGAG CCCTTAAAG GACCAGGGAT 60

TGCTCACTCG GGGAGCTCGG CTCTTGAGAC AGGAATCTTG CCCATTCCCC GAACGAATAA 120

ACCCCTTCCT TAACTCAGAA A 141

SEQ ID NO:6554

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07726

## SEQUENCE DESCRIPTION:

GATCAGGCAG CAGGAGTGAG GGGCACAGTC ACCCCAGGCC TTGCTGAGCC CAGGTCTGGG 60

TACTGAGTGT CCAGAGCTGC CTCCCAGGA GGTTAAGGTG GGGGCAAAGG GGAAGCTTCA 120

AGCACTTTGC CTACTTTTGT TCACTNCCCA GTGCACTGTG ACTCAGGCCT TCCCATCAGG 180

CCTATTTGTC TACCCAATAA AGCGTGTTTT TTCCAGAAAC AAGAAA 226

SEQ ID NO:6555

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07727

## SEQUENCE DESCRIPTION:

GATCAGCCTG GCCATGGTNA AACCCCATAT CTAGTAAAC TACAAA

46

SEQ ID NO:6556

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07729

## SEQUENCE DESCRIPTION:

GATCCACTAT NAGGGTGGCA TCAGCCTGAA TTGAACATCC TATATCTNAA CATCTGCATA 60  
 AATTCCAGGT GACCACCAGT GTGCACCACT CACCCATCCC AGTGTATTCA GGCCNNNTGA 120  
 CCTGACCCAN TTTGGCCAG AGGACTCTGC TGGTGACCTG AAAAGAGGGA CTACATATTT 180  
 NAGGATATTG TTGGTCTCAC ATGACTCTTG ATAGAGTTTG CCAGCCTTCA AATCACCAAC 240  
 TGTGGGAACC AAGNNGGNNN TTATTGCCTT GCTGTGTTCA ATTACANAAA ACGNTGGAAA 300  
 NGGCTN 306

SEQ ID NO:6557

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07731

## SEQUENCE DESCRIPTION:

GATCTGAATA CCCCTTCTCT GTAGCTGCTA GTGAGCCTTC CCATTAGAT TAAAGATTGC 60  
 TTTATCCAGC AGTCAATTAA CTCTCCAGTT ATCAGTACTC CCACAATTGG CCAGGGCAAC 120  
 AATAATTGGA GTTCATACTG ATGCCCTGAG GCACTGAAAA AAAAAAAAAAT TCCAAGGNG 180  
 CCTTNTGGGN TGNCTAAAGG TTNCATTGTG NTTGGNGGCT TTNGTGTTAG GTGTGCNGTT 240  
 TANTTTCCTA NTTNN 255

SEQ ID NO:6558

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07734

## SEQUENCE DESCRIPTION:

GATCACGNCA CTGCACTCTA GCCTGGGCGA CAGAGAGAGA GACTGTCTAA AAAAGGAAA 59

SEQ ID NO:6559

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07735

## SEQUENCE DESCRIPTION:

GATCCTNAGG TCTCCTAGCC ATGTGGAGCT GTAAGTCCAA TNAAACTTCT TTTTCTTCCC 60  
 AGTCTCAAA 69

SEQ ID NO:6560

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07736

## SEQUENCE DESCRIPTION:

GATCTGTCAA GTCCAGTAGA GCTTCAAGGT AAAATNAAAA TAACAATGTG AAA 53

SEQ ID NO:6561

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07738

SEQUENCE DESCRIPTION:

GATCCAGAGG CCATGGAAGA GTCTCCAAGG AAA

33

SEQ ID NO:6562

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07739

SEQUENCE DESCRIPTION:

GATCAGCTCA AAAAGNTTGG GCTTAGNGTT TTCATTGCAA ATNATAATTG CTGTAGAGCC 60

ACACACAAC TTTGAACTTT TAATTATAAG TGTTATGGCT AAAGTTATTN NCTGAAAATT 120

TCAGTAAAGT GTGTGAATGT TTCTTTATGT ATTANCNN 158

SEQ ID NO:6563

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07740

SEQUENCE DESCRIPTION:

GATCAGGGTT CTTTTTTTCC CCCATACAAG TATCCAGTCA TTGTAACACT GTTTATTGAA 60

AGAATTATCC TTTCTCATT AAATTACCTT GCCAATTAGT AAAAAATCAA TTAACCATAA 120

A 121

SEQ ID NO:6564

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07741

SEQUENCE DESCRIPTION:

GATCAGCATA CACAAATNAC AAAAGTCTGA ATTTTTTTTT ATCAAGAGGG ATAAAACACC 60

ATGAAAATAA ACTTGAATAA ACTGAAA 87

SEQ ID NO:6565

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07742

SEQUENCE DESCRIPTION:

GATCCNTTTT NCTGTGGCAT TTGGTGCCCT AAAAATTTTG CATTTATCTT GAAA

54

SEQ ID NO:6566

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07743

SEQUENCE DESCRIPTION:

GATCATTGA CAACTGCAA

20

SEQ ID NO:6567

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07744

SEQUENCE DESCRIPTION:

GATCGACTAT GAGACAGCAA AGGGGCCTAC CTNCTNATGG AGTTAGCCAA GAGCCAGGAC 60

AAGAGTCTCA AGATTATGA CGGTGCCTAC CATGTTCTCC ACAAGNAGCT TCCTGACGTC 120

ACCANCTCCG TTTCCNTGA ANN

143

SEQ ID NO:6568

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07745

SEQUENCE DESCRIPTION:

GATCTGTGTC AATGCTCNAA GGCCAAGGAT TCATCTNTCT TNTCACCCTA GGACCTGNCT 60

GGCATTGTAT TAGCAAATC TTTCCTAGA CATCGTACTA CACGACACGT ACTACGTNGT 120

AGCTCACTGC CNCTGATGTC CTATCAATAG GAGCTGTATT TNCCATCATA GGAGGCTTCA 180

TTCCTGGTN TCCCNATN

199

SEQ ID NO:6569

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07746

SEQUENCE DESCRIPTION:

GATCGTTTCC AGGACAATAA AAGTTTCGGA GTTGAAA

37

SEQ ID NO:6570

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07748

SEQUENCE DESCRIPTION:

GATCAGATGT TTAAATNAT TCCAAATACT TCATTAAAT AATTATTTA TTATAAA

57

SEQ ID NO:6571

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07749

SEQUENCE DESCRIPTION:

GATCGAGGAA AGGGGCGGAG AATTTTTTTT TCTTCTTCCC ATTTCTTTAA AAAACCAACA 60  
CAAGAAAACA CACACACACA CAACCAACGT TTGTTCCCGA GTAGAAACAT AAATAGGGCA 120  
GAATCGAACA CTCTGTTCTT CTCTCTTCCA AA 152

SEQ ID NO:6572

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07750

SEQUENCE DESCRIPTION:

GATCAGAGCT TGAAAAACA AA 22

SEQ ID NO:6573

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07751

SEQUENCE DESCRIPTION:

GATCAACCTG TGGCTGTTTT CCCGTCTAGG TTCTCACAGG NATCTCCTGA CAGAGGTACT 60  
TAACAATGGC TCTNCTGGAA ATTTCTATAA ATAAATGTC CAAAATGGAA A 111

SEQ ID NO:6574

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07752

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCTCCTTA TAATAAACCT AATAAAGCAA GAAA 44

SEQ ID NO:6575

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07753

SEQUENCE DESCRIPTION:

GATCCCGCCA CTGCACTCTA GCCTATGTGA CTCTGTCTCA AA 42

SEQ ID NO:6576

LENGTH:48



TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07754

SEQUENCE DESCRIPTION:

GATCATTGT AAGACCAAAA TATAAATAAA AAGTTTCAAA AATCTAAA 48

SEQ ID NO:6577

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07755

SEQUENCE DESCRIPTION:

GATCGATTAC AATAAATGTT TTTCTAAAAA GCCATTTTCC CACAAA 46

SEQ ID NO:6578

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07756

SEQUENCE DESCRIPTION:

GATCAAAAGC TTTGCATTGA TAAGTGCTC ATAATATTG CTGTGATTGG AGAAAAATG 60  
TAGTCGTAGC CAATAAATT TATCAGCTT TAAGTTTCAG TATTATTA CCATTTTCAT 120  
ATAAA 125

SEQ ID NO:6579

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07757

SEQUENCE DESCRIPTION:

GATCAAAATGT GAAATAAATA TGAATGGAGT GGTAAA 36

SEQ ID NO:6580

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07758

SEQUENCE DESCRIPTION:

GATCTCTGGC CTTTGGCTT TCAGTATTTG TCCTTTTAT GCCTGAATGT TTAACCTGCC 60  
ACATNTTGT ACTGCAACAT GAATCTTGA AATTTAATG TTATGCATT NAAANGTTT 120  
TGGTATCTG TAACTAAAT GTGCCCTTAT TGGCTNGGNG GTCAAGTNAA GATGTTTGTA 180  
TAATGTATTN GTCAGNAAA 199

SEQ ID NO:6581

LENGTH:66

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07759

SEQUENCE DESCRIPTION:

GATCTACTGT GATGTTGTCT TCAAAGGCAG GNGAAAATAA TGTTCACAAT AAAATGTGCT 60  
AACAAA 66

SEQ ID NO:6582

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07760

SEQUENCE DESCRIPTION:

GATCTGTAAA GAATGACTTT CAAGGATAGT TCTTAGGGGA CTGTGAAAGT GTTGGGTCTT 60  
ACTCNAGGAT GCCTGCATGG GACCCNACCC GGAGCTGGTG TGGCCATTCC CCAAGTGCCA 120  
CTGGNCCATG GNNNN 135

SEQ ID NO:6583

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07761

SEQUENCE DESCRIPTION:

GATCAGCCTG GCCAACATGA TGAGACCCCA TTTGTACTGG AAATGCAAAA ATTGGCCAGG 60  
CATGGTCGCG GGTGNCTGTG GTCCCAGCTG CTCGGGACGC TGAGGCAGGN NNNATCGTTT 120  
GAACCTNGGN 130

SEQ ID NO:6584

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07762

SEQUENCE DESCRIPTION:

GATCAAAATGA AAGGCCTATA ACTAAAATCA GCCAGCCCAT GGCCCNCACT AAAGGAACCT 60  
NCCTCTGCTC CCTNTGCAAA 80

SEQ ID NO:6585

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07763

SEQUENCE DESCRIPTION:

GATCAACAAT TTTTGTTTTG ATTAATAATNA GTTTTTTGAA AGTTGAAA 48

SEQ ID NO:6586

01903

2153480

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07764

SEQUENCE DESCRIPTION:

GATCCCCTGC TGGCTGGGGG CAGCTCCCAG GATATACTGC CTTACAACTG TTTCTAAAGC 60  
CCATCCTNCT AACATGGCGA TTCCGGAGGT CAAGGCCTTG GGCTCTNCCC AGGGTCTAAC 120  
GGNTAAGGGG GCCACATACC NGTTCCAAGG GGNNTGTCAA GTNGTGAAGT CGTTNTGN 178

SEQ ID NO:6587

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07765

SEQUENCE DESCRIPTION:

GATCAGATGG TTTATAAAAG TAATAACCAT AAAGCAAAAA ATAATTTGAA AGCCCGTCTA 60  
TTCCTATGCT CANTAAAGTT AAGGTTTTTC TTCATTAAA 99

SEQ ID NO:6588

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07766

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGGAGT TTGAGACCAG CTTGGGCAAC ATAGTGAGAC CCTGTCTCTA 60  
CCAAA 65

SEQ ID NO:6589

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07768

SEQUENCE DESCRIPTION:

GATCACAGGG TCAGGAGTTC AAGACCACCC TGGACAATAT TGTGAATTCC TGCCTCTACT 60  
AAAAATACAA AAATTAGTCG GGCATGGTGG CGGGTGCCTG TGGTCCCAGC TACTCGGGAG 120  
GCTGAGGCCA GAAAATCGGT TGAACCTGGG AGGTGGAAGG TGCACTGAGC CAATATCACA 180  
CCAGTGCACT CCAACCTGGT GACGN 205

SEQ ID NO:6590

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07769

SEQUENCE DESCRIPTION:

GATCTCATAC TCAACAGAAG GAGACTCAGA GACTCCAGAA GGCACAGGAG CTGCCCN 57

01904

SEQ ID NO:6591

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07770

SEQUENCE DESCRIPTION:

GATCATGTTT ATTTACTGAT AAAACTCAAT ACCTAGAACT GCACCTAGCT CATGATGGTA 60  
CCTAATAAAT ACTTCAATGA AATGATGTGG TGATGCATGC CTATAGTTT AGCTACTTGG 120  
GAGGGTGGCC TGAGCCAGG GGTTCAGAC CAGCTTAGGC AACATAGCA GACCCCATCT 180  
CAAA 184

SEQ ID NO:6592

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07771

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTAATAA GTGCCTGGNA TTTCCCTAC TGGCTCTCAT NCTNACTCTT 60  
GCCGCCCTGT GAAGAGGTGC CTTCCACCGT GATTGTNAAG TTTCTGAGG CCTTCCAGC 120  
CATGTGGAAC TGTGAGTCGA AAATNAAACC TCTTTTATAA TTAAG 165

SEQ ID NO:6593

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07773

SEQUENCE DESCRIPTION:

GATCCAAGCT TAATTTTCAA ACAGCTTCCC AAAAAGCTGT ATCCTGAATA TCATAAAGTC 60  
TATCATATGA TGTGACTCA GTCATATTCT GTAGACTCAA ATCTTTTATC TGATTATACC 120  
AGCTTTCCCG NAAA 134

SEQ ID NO:6594

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07774

SEQUENCE DESCRIPTION:

GATCTGCCCC CGTTGGCCTC CAAAGTGCTA GGATTATAAG TGTGAGCCAC CACACCAGGC 60  
CCGTTTCATC CCTGNCTCAG CCTGCATGCC AAGCTCCCTN GGTGCCCGNC CACAGGTGTC 120  
ACCCTTNAG GAGAANGTGG CCTGGGGN 148

SEQ ID NO:6595

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07775

SEQUENCE DESCRIPTION:

GATCGCTTGT AGCTGGGAAC AGTGCTTACT TCAGGGAAAA CTGATTTTGA TAGAACCGAC 60  
TAGTTGAGTA TTAAACTGTT TTGGAAATAA TTTATATATC TAAGTGCTGA AATATATTTC 120  
TCTTCTCCCC ACTTATTCAA ATAAAAANGT TTNATACTA TAAACTTTTC NNNGTAGCG 180  
CCACGCAGTC CTTGTCAAGN TTGTNCTGGG GGNCAANAAC TTGATGTATA AAGCATGN 238

SEQ ID NO:6596

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07776

SEQUENCE DESCRIPTION:

GATCTCTACT ACCANAAGGA AAATAGTTTA GGNGAAACCA GCTTTTANTG TTTTGTAAA 60  
ATTAGCTTCA CCCTGTNATG TTANCAAGGT ATGTCTTTGC CN 102

SEQ ID NO:6597

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07777

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGCACTCTA GCCTGGGTGA CCAGCCTGGG TGACAGAGTG AGNCTCCGTC 60  
TCAAA 65

SEQ ID NO:6598

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07778

SEQUENCE DESCRIPTION:

GATCTAGAAG AAAGTATTGT ACGTTTGAAT GCAGATTTTN ATCCACAGAT AGTTGTAGTG 60  
TTTAGACATG ACAGGACCTA TCGTTGAGGT TTCTAAGACT TACTATGGGC TGTAACCTG 120  
TTTTTNAAAA CTATTTTGA AACCTGAGAC TTGCCGTCTG GCATTTNAGT TTAATACAAA 180  
CTAATGATTG CATTGNAAG NGNTNCTTGA CCTTATTCT AAACGTCTAG NGCTCTGAAA 240  
TGTCTTGCTG GNNGGTATTA AACTATTTGC CTGTNGTACA TN 282

SEQ ID NO:6599

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07779

SEQUENCE DESCRIPTION:

GATCAAATGG CTTAGAGNTA GTCCTGGAAT ATTCATATTC AAAGATTCCT TATTAATGAA 60

TGTCTTTAAC TTAAATCTAC CCAATAATTG CAACATGGTT CTTTGTACAT TTTCATTATA 120  
 TGGTGTTAAC AAGCTTCACT GCAAACAAAT AAATTACTTA AGTTATTTGN AAA 173

SEQ ID NO:6600

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07780

SEQUENCE DESCRIPTION:

GATCAGTGTA GCAAATNAGG GATGAAGNGT TCAAACCTTT TGGCCCTTTC TTTCTTTNCT 60  
 AGGCTTCTCC CTCGCAGGGT GTTCCGTAGT TTCTTCTCGA GCCAATGCAT GTATTATAGC 120  
 AGCAGGTGTC TTTGTGCTTT CTCATCATAG TAACGTACTA CTTGTAAATA CATTTTNCTA 180  
 TTTNCTATTT TTTTGTATTT TTTTTGACA TTTTGTTC A TTGGTGTGCT GNGNGNNNCC 240  
 CATGCCCTCA CTCCTTAAAG AAA 263

SEQ ID NO:6601

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07781

SEQUENCE DESCRIPTION:

GATCCAAAAT TCTCAACAAA ATATTAGCAA ATTGAACCCA CCAAGGTAA A 51

SEQ ID NO:6602

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07782

SEQUENCE DESCRIPTION:

GATCAAAGGC CTCTNAGGGG TGTCCACCAA AAATTCTCC TTCAAAAGAG AAGACTCCGT 60  
 GCTTCAGGGC TATGACATCA ACAGCCAAGG GGAAGAGTCC ATGGGAAATG CAGAGCCCCT 120  
 TAGGAAGCCN ATCAAAAACC GGNGCNTANN GTTAANGAAA GTGAACTCCC AGGAAATACA 180  
 CATGCTCCCA ATCAAAAAC AACGGCTGGC CACCTTTTTT CCAAGAAAGT AAATAACGGC 240  
 TTTTAAANT NNGTATGNTT ATAATATGGG GAAAGGTGCA TTN 283

SEQ ID NO:6603

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07783

SEQUENCE DESCRIPTION:

GATCGTTCAT CCGATTGCNA CGTCCAAAG TGTCCAGGT TTTAAGACCT TACAAATGAC 60  
 TCAGCCCACG TGCCACTCAA TACAAATNTT CTGCTATAGG GTTGGTGGGG CAGAGCTGTC 120  
 TTCCTTCTGC ATGTCAGCAC AGTCGGGTAT TGCTGCCTCC CGTATCAGTG ACTCATTAGA 180  
 GTTCAATNNN NATAGATAAT ACAGATATTT TGGTAAATTG AAA 223

SEQ ID NO:6604

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07785

SEQUENCE DESCRIPTION:

GATCACCTGA GCCTGAGAGT TCCAGACCAN CCTGGGCAAC ATAGCGAAAC TNCATCTCTT 60  
TAAAAATAAA ATAAATTA AATTAATACA AATAATTA 100

SEQ ID NO:6605

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07786

SEQUENCE DESCRIPTION:

GATCCCTTCC ACTCAGGATT CTCGCCGCT TTTCTAAGAA AATAATAAAA AAAAAATNCT 60  
TGTTTCAAA 69

SEQ ID NO:6606

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07787

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGCGCT GGGATTACAG GCGTGAACCA CTGCGCCCAA 60  
CCTTTGGATT ATTTTGTGTA GAGATGGGC TTCCCTATGT TGGCNAGGCT GGTCTCAAAC 120  
TCCTGGANTC CAGCCTGGGC GGCAGAGCAA AACCTTGCT CAAA 164

SEQ ID NO:6607

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07788

SEQUENCE DESCRIPTION:

GATCACTCCT CTGCTTCAGC CTGGGCAATT GAGCCAGACT CTGTCTCAA AATAACAAA 60  
AAACTTGAC AAA 73

SEQ ID NO:6608

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07789

SEQUENCE DESCRIPTION:

GATCTTTTCTA CCTGGATATG TCTGTAAGGC TCCTGAAAGA GACAAATAAA GTCAATATAT 60

TTNCACAGTG CAAA

74

SEQ ID NO:6609

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07790

SEQUENCE DESCRIPTION:

GATCTTAGGT CAAATAACAG ACTTGAGAAT ACTTTATAAA CTGCCATGAT ACAGCAAA 58

SEQ ID NO:6610

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07792

SEQUENCE DESCRIPTION:

GATCGNGNGC GTTAAACGCT GGTGGGCAGC AATAAGGGGC AGATGTGACC AGATGCCTGC 60

NTCCCCAGGG TGCCGAGGGC AGCAGGAAAA AGTGGGGACC TCGGTGCATT TGCCCCACCC 120

NTCCCTNNC TGGGCTAAN 139

SEQ ID NO:6611

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07793

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTCGAACG CACTGCGGC CCCGGGTTCC TCCCGGGGCT ACGCCTGTNT 60

NAGCGTCGCT TGAAG 75

SEQ ID NO:6612

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07794

SEQUENCE DESCRIPTION:

GATCTGGGGG AGGAAGTTCA AGGAAGGCAC CACACCAGAA ATNGGACCTA AATTAAGGCT 60

TAAAGAATGA GCATGGCCAC ACTGTCAGTN AGTGTTCTTT AGGTGGTAGG ACTATGGTTG 120

ANATTTTCNT TCTTCCTATC TTCCTGCCTT TTCAGGNNN TNAATATTAA N 171

SEQ ID NO:6613

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07795

SEQUENCE DESCRIPTION:



GATCACGATG TAAATAATTA AGCATTTTGG TTGGATTCT TTTGTAATAA ACTATTTTG 60  
TACCATAAA 69

SEQ ID NO:6614

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07796

SEQUENCE DESCRIPTION:

GATCTAGGAT AGCTAAGTNA CCTACATGGT GACTGTTCGG TCTAATTCAG AAACAGAAGT 60  
ACTAAAAGAA TACTAAAAAG TTTTACCCA TTATCTCTAT CCCTGTTTIN TTTTGCAAT 120  
TCTCAGCNGN AGGGAGCAAG AAAATACACA GCAGNGGGGG GAATGTTTGT TTGCATCCTG 180  
GCTTTCTCAA CCGCACTTGA CGTCCTTGAA TATNCTAGAT ATTTACTCCT TCAAGAAAGTC 240  
AGGAGTATAT CCAGGCCTAC CTATCANCCT N 271

SEQ ID NO:6615

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07797

SEQUENCE DESCRIPTION:

GATCACACCA TGGAGACTTT CTACTAGAGG ACTTGAAAGA GAACTGAGGG GCCACAAAAT 60  
AAACTTCACC TTCCATTAAG TGTTCAGCA TGTCTGCAA TTAGGAGGGN GTTAGAAACA 120  
GTCTTTTCA TCCTTTGTGA TGAAGACTGA AATTGTGCCG TGTTGCCTTA TATGANTATG 180  
CAGTATGGGA CTTTGAAATA ATGATTCATA ATAAAATACT AAACGTGTGT CTTCAA 237

SEQ ID NO:6616

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07798

SEQUENCE DESCRIPTION:

GATCTNAAAT AAAATTCAAA CTCTACTTCT GTTGTCTAGT ATGTAATTGA GCTAATGATT 60  
CATTGGGAAT ATACCTTTT ATACTCCTT ATCATGGTAC TGTAAGTGA TCCATATTAT 120  
AAATATAATT ATCTNAAGN TTTTNAATTT TTNTTNATGT CCAAGNGCCC ACGTGAATTT 180  
NCTGGTGAAA GTNAGN 196

SEQ ID NO:6617

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07800

SEQUENCE DESCRIPTION:

GATCATCGAC ACTTAGAAG TACTCCNGNC CCCGTGCTCC TCCAGAACCT ACGNCTGCAC 60  
TAAGCGTCGA TTAAG 75

SEQ ID NO:6618

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07801

SEQUENCE DESCRIPTION:

GATCAGCCA CTGTACTCCT GGGCAACAAA GCGAGACTCC CTGTCTCAAA 50

SEQ ID NO:6619

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07802

SEQUENCE DESCRIPTION:

GATCGAGGCT TGTNATGCCT TGTGAGAAAT AAGGGCCTTA ATTTGTACTG TCTGCGGCAT 60  
 TTTTATAAT ATTGTATATA GTGACTGACA AATATTGTAT TACTGTACAT AGAGAGACAG 120  
 GTGGGCATTT TTGGGCTACC TGGTTCGTTT TTATAAGATT TTGCTGGGTT GGTTTTTTTT 180  
 TTAATTAAAA AGTTTTGCAT CTTTAAA 208

SEQ ID NO:6620

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07804

SEQUENCE DESCRIPTION:

GATCAGGAAG CCAAACCTAA GAAAGAGCTT GAAAATACTG CTCTAGAGCT TAGTCAGAAA 60  
 GAAAAACAGT TTAATGCCAA AATGCTGGAA ATGGCACAGG CTAATCAGC TGGAATCAGT 120  
 GATGCAGTGT CAAGACTGGA ACAAACCAA A 151

SEQ ID NO:6621

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07805

SEQUENCE DESCRIPTION:

GATCTNGGCA ACACAGTCAG ACTCCGTCTG AAA 33

SEQ ID NO:6622

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07807

SEQUENCE DESCRIPTION:

GATCCGGACG ACGTAATCAC TGACATTNAG ATGGTGGACG AGGGCTGGTG GCGGGGACGT 60

TGCCATGGCC ACTTTGGACT CTTCCCTGCA AATAATGTCA AGCTTCTGGA GTNACTAGAG 120  
 CTCAGTGTCT ACTGCAACTN TAATTTCCCA TGTCCAAAGN GGNTCTGCCT CCACCCCTC 180  
 CCTATTCTCTG CTGCAAAATNT CTAACCAGAT GAGGTTCTGG ACAGACTTCC CTCTCCTGCT 240  
 TCATTAAGGG CTTGGGGCAG AGNCAGCATG GGAAGGAGG TCCCCTTCCC CAAGAGTCCT 300  
 CTTCTATCCC TGGATGAANN N 321

SEQ ID NO:6623

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07808

SEQUENCE DESCRIPTION:

GATCCCAGCA CCCATTCTT AGCTATTTAT CCCTTCTCTG GTTTCGAAA GGCAATTATA 60  
 TCTATTATGT ATAAGTAAAT ATATTATATA TGGAAA 96

SEQ ID NO:6624

LENGTH:242

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07810

SEQUENCE DESCRIPTION:

GATCTAGGCT TCTNGCCTCA CTCCCATTA GAATAACACC CAGCAAAATG GAACTATCCA 60  
 AGCACTTCTT ATACATCTGT CTCCCATTCT TCTCTTAAGA AGTTTCTTCA GCTGGTGCGC 120  
 CATCATCATC ACCATGACTG CCCCAGCTC TTGAGGAAAG GNATAATTAC CTCCATGGTG 180  
 TTGCCTCCTA TTTGCCTAAA GCACCAGAAA TAATATTAAA TACACCAGAT TAACTACANA 240  
 AA 242

SEQ ID NO:6625

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07811

SEQUENCE DESCRIPTION:

GATCCCGTCC TTGTCAGAGA AGTGTTCTT GGATGAGCGC CCAGAGGGAG GAGCCCATGG 60  
 CCCTTTCTTC TGTNACTGAT TAAAAATCTC GATGAAA 97

SEQ ID NO:6626

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07812

SEQUENCE DESCRIPTION:

GATCCCTTCA AGACTTTGTC ACAGCCTCTA TCACACATCT GTTTTCTCG AAGNAAAAAA 60  
 TATAATTAAT AAAAATGTTT TACTCTTTTA CACTGAAA 98

SEQ ID NO:6627  
 LENGTH:36  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07813  
 SEQUENCE DESCRIPTION:  
 GATCCCGNTG TTCTTAATAA ATCCTGACTT CCCAAA 36

SEQ ID NO:6628  
 LENGTH:35  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07814  
 SEQUENCE DESCRIPTION:  
 GATCAAAAAT AAATACTGCA CATAAANA AAAAN 35

SEQ ID NO:6629  
 LENGTH:77  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07815  
 SEQUENCE DESCRIPTION:  
 GATCTTGTTT TTATTGTTAT TGCTTTTATT ATNATTGCTT TTATTATCAT TAAAACTCTA 60  
 GTTCTTGTTT TGTCAAA 77

SEQ ID NO:6630  
 LENGTH:98  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07816  
 SEQUENCE DESCRIPTION:  
 GATCCAGTAC AGAAAGGAAA GGNTATTTAT TGATTAACAG AAGTTGTCCT TTTAAAAGTG 60  
 TTTATTTTGG GCAATAAAGA GCACAACATA ATCTCAAA 98

SEQ ID NO:6631  
 LENGTH:132  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS07817  
 SEQUENCE DESCRIPTION:  
 GATCAGGGAA CAAAATCCTC TCCTTGTTGA AATATCCCAT GCAGTTTGTT GATACAACCT 60  
 AGTATCTTAT TGCCTAAAAA AAAATTNNCT TATCNTTGTT TCAAAAAAGC AANNTCATGG 120  
 ANAATTTTGG TN 132

SEQ ID NO:6632

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07818

SEQUENCE DESCRIPTION:

GATCAACGGC TGACCTTCTG GCGTCTGGGG CATGGTGAAC CCACCTNCAT GAATAGCACT 60  
 GTGTTCCATG TGCCTGANGT GGCTGACATG GACTGCTGGC CTGTAAGCCC TGAGTTTGGC 120  
 CACCGTTGTG CCCTTGGGGG TCAGGGGNTT NAGGTTTACA ACTGGTATGA CTGAGGTATC 180  
 CTGCGGTGGC TGGCGTGCTG GGCATGGGGC NTGCTCACAG ACAGNATGGA GCAGGGAAGG 240  
 GCTGTCTGT GCCCATGCTC AGCTTGNCCT TNNNGNNGAN GGAGGTNGTG GCCGTGGGTN 300  
 CCTN 304

SEQ ID NO:6633

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07819

SEQUENCE DESCRIPTION:

GATCTCAAAT AAAATTNCTG TAAAGAATTT CCAA 35

SEQ ID NO:6634

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07820

SEQUENCE DESCRIPTION:

GATCCAAATC GGGCCATCTT CATTGCCATG AGTGTCGGA CAGGCTCTGC GTGCCAGGCA 60  
 ACAGTGGGCA GACAAAGGGC TCCCTGGCTA CTGGGAAGAT ACAGAACCAT CCTGTGAAAA 120  
 TCATTTCAGC ACTGGAGACC TTCTTTGCTA TTAATTCTTT CATTAACAAT GACCTCTAAT 180  
 TTAAA 185

SEQ ID NO:6635

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07821

SEQUENCE DESCRIPTION:

GATCCGTGGC CTGAAGGTTT CTAGAGNCGT CAAGAAATNA ATATCTTACA CTGTGATTCT 60  
 GTGAGGAAAG ACTGGTAACC CAAAACCTCTC TTCTCTAATG TATTTTNAAC CGNAAATGAC 120  
 AATATTCTT TAATAAAGTA TTTATACCAA A 151

SEQ ID NO:6636

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07822

## SEQUENCE DESCRIPTION:

GATCCAGGTC TAGGCCCTTN ATCTGCTGCT CTGTGGCCCA GGGCAGGTTT GCTTGACCTC 60  
 TGCCTCAGTT CTCGACTCTA AAGGACATAC TGACCTACCT CACAGGGGTG TTGTNAGGAT 120  
 TAATAAATNT TGGTACTCTG CTTTGGAAAT NTGAAAAAAA AGAAA 165

SEQ ID NO:6637

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07823

## SEQUENCE DESCRIPTION:

GATCAAAATC AGTGTGTAT GTATGTTTAT GGCAACATTT TGAAAATAAA AATTAAATGT 60  
 TTTNCTTCAA A 71

SEQ ID NO:6638

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07824

## SEQUENCE DESCRIPTION:

GATCTCAATA CTTCCCTGAC ATCCCTTAAG ACTCAAGTCT TGATACTTTG TCTGCTCTCT 60  
 GGCTCTTTCT TTGTCAATAC TATNATNNNA ATCTTCTTGA TGTGACTCT TGCTAAAATT 120  
 TTTNGTCTTC CTTATTGTTA ATGCTTATAG AAAATGATTC CTTGTATCT TTNAGCCCAT 180  
 GTCATCCGAA TCATTGCTG TTTCTAGCCT AGGTGCTTTG ACTATGCCAG CTTGTATTTC 240  
 TNCAGAATTT NCATTANCTA TATGTGTGGT ATTGTAGGCA TTACCATATT TNAATAATAA 300  
 NTTTAGGCCA TTGCTTCAAA TCACAACAAA NNACAACNCA ACNNACNN 348

SEQ ID NO:6639

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07826

## SEQUENCE DESCRIPTION:

GATCTGAAGA GTGAAAATAA TGCTTTAAAT NAAAAATTGA AATCAGAAGG AAA 53

SEQ ID NO:6640

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07827

## SEQUENCE DESCRIPTION:

GATCTTTTNN AATTCAGTAC AACCCATAAT CATGTAAATN CTCATTNCT TTAGGNCATA 60  
 AAGAGAGCCC TAGGGTGCTC TGAATGTGTA CATGTNCTTG TCATAAAATG CATACTGTTG 120  
 ATACAAA 127

SEQ ID NO:6641  
LENGTH:23  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS07828  
SEQUENCE DESCRIPTION:  
GATCTGTTGT TACTTAACAG AAA

23

SEQ ID NO:6642  
LENGTH:85  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS07829  
SEQUENCE DESCRIPTION:

GATCTTNATG TTAATNTTCA GAGGACTCTA GACAACAAC TAGCAACTGA AGCTTATNAA 60  
AGAAGAATTA AGCGCCTTGA GCAAA 85

SEQ ID NO:6643  
LENGTH:113  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS07831  
SEQUENCE DESCRIPTION:

GATCTTTTGT GGATATTTGT CACTTGGTTT CAGAAAGTNC ACAAATGTAG CAACAGCTCA 60  
CATGACTGAG TAGGTAGAAA ATGTGAAATA AATCTCATAT ATATNGTTTT AAA 113

SEQ ID NO:6644  
LENGTH:54  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS07834  
SEQUENCE DESCRIPTION:

GATCGTCCCG CTGCACTCCA GCCTGGCCAA CANAGCGAGA CTGTCCCCC CAAA 54

SEQ ID NO:6645  
LENGTH:59  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS07835  
SEQUENCE DESCRIPTION:

GATCTTGCTC CTCTGTAAGG AACAAGGGTG CCTAATAAAT ACATTNCTCC TTTATTAAA 59

SEQ ID NO:6646  
LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07836

SEQUENCE DESCRIPTION:

```
GATCCAGGGT CCCCAGGGT GGGCTCAGCT CCAGGGAGAG GCCACCCACG TGGCAGCCCC 60
ACCTCTTGAG AGCCCCAGT GCCGGAGCAG AAAGGACCCT GGACCCNGAG GCAGNNACTG 120
CGGGGTGGTA GAAAAGGTAG AGTAGGCTGT GGCAATGGAA TAAANCACGA TAAAAACGT 180
TAAA 184
```

SEQ ID NO:6647

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07837

SEQUENCE DESCRIPTION:

```
GATCCTTCCC CTGCAACCAG ACAGTCTACA ACTGCCCCCT CCAGCCCATT TNCTGCCGTG 60
AAACCCAGC CAGCCANACC AGGCTCTGGA ACCCTTTTTC GACTAGNCA ACTCTGGNC 120
ACCAGNGGG GTAGAACACC NAACACCAA CTGTACAGAN TNTCCN 166
```

SEQ ID NO:6648

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07838

SEQUENCE DESCRIPTION:

```
GATCTNTNAT GGTGAGCACC ACCCGCNTAC CCAGTTCCTC CAGTGGAGAC CAGTTGGGTA 60
GTGGTGACTG GGTACGCTAC AAGCTCTGCA TTGTNTGCTG ATGGGACGCT CTTCAAGGTG 120
CAAGTAACCA GCCAGAACAT GGGCTGCCAA ATCTNAGNCA ACCCGGTGG AAACACTNAT 180
TAAAGAACC CCAGAGGACA CCAACAGGTG TNTATCTGGN CNTGNCN 227
```

SEQ ID NO:6649

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07839

SEQUENCE DESCRIPTION:

```
GATCTTTGGG GTTGGAGTGA AGGTCTTATC TGCATTAATT TTGTTAATGC ACATTGTAGA 60
TGTGGAGAAC ATCTTGACCT GCATAAGGAT TCGTCTCAT TTTATTGTGT AGTGCTTTTT 120
CGAAATATTT ACATTTCTTT GGTTCCTATG TTCATGTATT CTGGAGAAGT AAAATTTCTT 180
GATTACTGGG CAGACCCTAA AACTACTAAG AGAAACATAA CATGTAGTTA GCTGTCTGCT 240
CATGGTTTGT TCAAATCTAA GCTAACCTTA ATGGTGCTGT GTCCGCTGTN CACAGAAAAC 300
GGCCTTAAAG TAGN 314
```

SEQ ID NO:6650

LENGTH:104



TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07840

SEQUENCE DESCRIPTION:

GATCCCCTCC CCTGCCCTG GGTTCCTGCC TTCCNTCCTC AAGCAGGCAC NNAGGCTTTA 60  
GAGAAGTATA GGGGGCTTCT CCCCTGCNGG GCTTACCACA NTTN 104

SEQ ID NO:6651

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07841

SEQUENCE DESCRIPTION:

GATCAAGATG CCGAACCTG TGTTCAGAAC CTCAAATAC TGCCATGAGA AACTAGAGGG 60  
CAGGTCTTCA TAAAAGCCCT TTGAACCCCT TTCCTGCCCT GTGTTAGGAG ATAGGGATAT 120  
TGCCCCCTCA CTGCAGCTGC CAGCACTGG TCAGTCACTC TCAGCCATAG CACTTTGTTT 180  
ACTGTCCTGT GTCAGAGCAC TGAGCTCCAC CCTTTTCTGA GAGTTATTAC AGCCAGAAAG 240  
TGTGGGCTGA AGATGGTTGG TTTCATGTTT TTGTATTATG TATCTTTTGG TATGGTAAAG 300  
ACTATATTTT GTACTTAACC AGATATATTT TTACCCAGAG TGGGGATATT CTTTGTAN 358

SEQ ID NO:6652

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07844

SEQUENCE DESCRIPTION:

GATCCAGTTT GGGATTATGA AATAAACCCAC AAATNAAAAT TTAAAG 46

SEQ ID NO:6653

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07845

SEQUENCE DESCRIPTION:

GATCTGGGGG GATGGAAAGC AAAATAAAGG AGGTGCCTGG NTGCATTATT TGCAGTGGGC 60  
AAA 63

SEQ ID NO:6654

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07848

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCGTCTC CCAAAGTGCT GGGATTACAG TCTTGAGCCA CCGGGTGACC 60  
GTCTTACAGG GATATTTTNA ATCCCGTNAT GGACTCTGTC TCCAGGAGAG GGGTCTATCC 120

ACCCCTGCTC ATTGGTGGAT GTNAAACCAA TATNCCTTTC AACNGGTGNC TGNTAGGGAA 180  
 AANCTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC TACCTGGCAT 240  
 GTGCTTGTA AGTNCTAGTT GTTCAATAAA TTTGTNAATA ATGCTGTAAA 290

SEQ ID NO:6655

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07849

SEQUENCE DESCRIPTION:

GATCTTCCTG GAAATNAGCA GTGACTAACG CTCACATAAC TGGTTTTTTT TTTNAACTGG 60  
 GCTGATGAAT ACATTACCT ANGAACTCA TTTTCGTTTA CTTAAGAGGG GANGTGCAGT 120  
 TTTNTTTTGG NAGTTCAGAN TCCAN 145

SEQ ID NO:6656

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07850

SEQUENCE DESCRIPTION:

GATCCTCTGG TTTNTTCCAT TGGGGCGGAG TCGGGGGTGG AGGGAGCTGG CCACAACCCA 60  
 CTGCTCTGAT GGGTGGTTTG TCCAAGNATG CTGAATGTAA TGCCTGGTCA ATGTGGAAGC 120  
 CCATNAGGTT GCCCAGGGAA GCCTCCAAAA GCTGGGATGC TTGAGGGTAT CCAAGTTGAA 180  
 AAAGACAAAA TCTGACCATC AGCCAGTGAC AGTCCTGGCA AATNAAGGTG GGGCGGGGCA 240  
 GTNAGGGGTG GGNGANGGTG AATNNTTCAT TATCCACCC NGCGGTTTNC TGGGGTGAGG 300  
 GGGGAAGANTC GNTGCTTGCT TTGGGCACTG ANGGTTTTTC TGTNNGGGGA N 351

SEQ ID NO:6657

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07852

SEQUENCE DESCRIPTION:

GATCATGTGA AGAAAACAGT GACCATTGAA AATNACCCTC ATCTGCCACC ACCTCCCATG 60  
 TGTTCAGTTC ACCCATGCAG GCATGCTGAG GTGATGAAGA AAATCATTGA GACTGTTGCA 120  
 GAAGGAGGGG GAGAACTTGG AGTTCATATG TATCTNCTTA TTTCTTGAA ATTTGTACAA 180  
 GCTGTCATTG CAACAATAGA ATATGACTAC ACAAGACACT TCACAATGTA ATGAAGNGAG 240  
 CATAAAANCT ATCCTAATTA TTGGTTCTGA TTTTNAAGA ATTAACCCAT AGATGTGNCC 300  
 ATTGNCCATA TTCATCANTA TATACAGTTT CTCTANTAGG GGAANN 346

SEQ ID NO:6658

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07853

## SEQUENCE DESCRIPTION:

GATCCACAG CTGGCCCAGG AGTTCGACAT TNACCGCAAG GTGGGCGNAG AGCCTGTNCC 60  
 TGTAACGAGG GATNATTCCA GCAATGGCTT TCCCCGCACT CAGCATGGTT CCCCAGTAAC 120  
 CTCCTGCTGA CCAGCTCCTC GGGGGAGCTG TGGAGGATGG TCGCATCGG TGGACAGCCC 180  
 CTGGGCTTTA ATGAATGTGG CATCGTGCCA CAGATTGCAG GTCCCCTGGC TGCCGCTGAN 240  
 ATCTCTGCCT ACTACATCAG CACCTTCAAC TTNNGNNNG GCCTGGTTGC CCGAGGACGG 300  
 TATCGGCAGC GTCATCGNGG GTCCTCCAGN GGNGGGNAGG AATGN 345

SEQ ID NO:6659

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07854

## SEQUENCE DESCRIPTION:

GATCTTTGTT AAAAAAATAA AAAGTACTAA CATTACAGAC ATGTAAA 47

SEQ ID NO:6660

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07855

## SEQUENCE DESCRIPTION:

GATCCTGCCA CTGCAGAGTG AAACCCTGTC TCAAA 35

SEQ ID NO:6661

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07856

## SEQUENCE DESCRIPTION:

GATCCCCCG AAGTCTTAC AGGCACTGCA TCGGGTTGTC TGGCGCCCTT TTCCTCCAGC 60  
 CTAAACTGAC ATCATCCTAT GGA CTGAGCC GGCCACTCTC TGGCCGAAGT GGCCGCAGTG 120  
 TTGCCCCGA GCTGCCCCCA CCCNCTCACA GGGTCCCTCA GNTTATAGGT GCCCAGGCTG 180  
 AGGTGAAGNG GCCTGGGGGN CCTGCNTTCC GGGCGCTCCT GGACCNTGGG GCAAACCTGT 240  
 GACCNTTTN TACTGGANTA GAAATNNGTT TTATNATTN 279

SEQ ID NO:6662

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07857

## SEQUENCE DESCRIPTION:

GATCATAATA TAATTGGTTA CAAAGTGGAA GTGCCAGCTG GCTTAAGTAC CCAAAGAANA 60  
 GAATGCAGCA GCCTAACTTA GTGTTACCAT ATGTTACTGA ATTGAAACT GACCTTTTTT 120  
 CCCACCCTAC TTCACACACC TAAAACTCTT TTTTGTGAG ACCAAAGNGC AAA 173

SEQ ID NO:6663

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07858

SEQUENCE DESCRIPTION:

```
GATCCAGTTG TCATCCACCA CAGACATCTC ACATCAGATA CAGACAGTTC CAAGATTGAC 60
AACAGAGAAC AACCTGCTGG AAAGACCTGG GCAGAAATGG AGAGCCCTGC GGGAACCATG 120
CTACATTTTC ATCTAAAGAG AGAATGCACA TCTGATGAGA CTGAAAGTNC TTTNTTGTTC 180
TAGATTGTAG AATGGTATTG ANTTGGTCTG TGGAAAATTG CATTGCTTTT ATTTCTTTGT 240
GTAATCAAGT TTAAGTAATA GGGGATATAT AATCNTAAGG CNTTTTAGGG TGGCN 295
```

SEQ ID NO:6664

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07859

SEQUENCE DESCRIPTION:

```
GATCATGGTC AGANTGGAGT ACCTGGGGGC TGTCCATGCC CCCCTTTGGA CCTAATCCTA 60
CCCGTCCCGG CCAGCCCCTC TCCACACCNT TNCTCCCCAA GTACCCGCCC ACCGTTTCCA 120
TGGTCGAAGG TCAGGGCGAG AAGAACGTGA CCTTCTGGGG GAGACCGCTG CCACGGGTGTG 180
AGGAGCTACA AGGGCAGAAG CTGGTGGTGG AGGNGNNACG ACCATNTNTA CACGTGCCTG 240
CTTGCAAAGA CCCTGAGGAA GAGGAACTCT AACANTTNTT TCCTN 285
```

SEQ ID NO:6665

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07860

SEQUENCE DESCRIPTION:

```
GATCCTGTTA GTCAGTGTGG TTCATCAAAT AAAACTGTTT GTGCAAA 47
```

SEQ ID NO:6666

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07861

SEQUENCE DESCRIPTION:

```
GATCTCTAGA GCTGTCTTGT CGCCGCCAG GATTGACCTG TGTGTAAGTC CCAATAAACT 60
CACCTACTCA TCAAA 75
```

SEQ ID NO:6667

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07862

SEQUENCE DESCRIPTION:

GATCCTGCCT GGNCAACCCT TTCCTGTCCC AGGCCCTACA TTCAGCAGAA ACGCACTTTG 60  
 GACTTTNTCC TTTANATAAA AGAAAGACAT CCCAGGAGAA GGACAAACCA GAGGAGTGAA 120  
 CCAACAAAGA GTACCTAGGA ATGGAAGTTG AGCCCTGGAA TGGGGCTCCA TGGAGAGGTG 180  
 CATAGGACTC GGCAGAAATG GCCTCTCCCC AAAGCCTCTT TTNAGAGGA GAGGGAAGCC 240  
 TATTTTNTTA ACTGGTTTGG GATAGGGAAT GGGGTTNCTT TTTNTN 286

SEQ ID NO:6668

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07863

SEQUENCE DESCRIPTION:

GATCCCCGCC TGGCCAGGNG CAGGCACGGG TGGTCCCNGT TCCACCCCAA GAGAACTCGC 60  
 GCTCAGTAAA CGGGAACATG CCCCCTGCAG CCAA 95

SEQ ID NO:6669

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07864

SEQUENCE DESCRIPTION:

GATCTCCTAA TGATGTATTG TGCCGTGGNA GTACTGTGTG TGAATAGCAG TAGTGGGGGC 60  
 AAAAGCAAATC TTCTCATTG GAAATGTTGT AAATAATTTT ATTATATAGT GTTTGGATG 120  
 TATTTGTTGT AGAAATGGNC CAGTGAATAA AGAGAATCTA AGGNTTTGTA CAATGTGAAA 180  
 TAACGTGTTA AATAANTGTC ATTGTCATAG AAA 213

SEQ ID NO:6670

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07865

SEQUENCE DESCRIPTION:

GATCTAAAGA CCCGGGAGCG AGAAGCCAAG GCCAGGTTCT GGGNGNAGGG CCCAGAGAAG 60  
 CAGAACAGCC CAGAGCCCCA GGTGCCTGGC CTGGGCTAGA CCTCTGGAAT TGAGATTAAA 120  
 CAATTTGGAG TTGGA 137

SEQ ID NO:6671

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07866

SEQUENCE DESCRIPTION:

GATCCGCTAC AGCAACGTGA AGAAGCTGGA AATAAGCCA AAGTACCCGC ACTGCGAGGA 60  
 GAAGATGGTT ATCATCACCA CCAAGAGCGT GTCCAGGTAC CGAGGTCAGG AGCACTGCCT 120  
 GCACCCCAAG CTGCAGAGCA CCAAGCGCTT CATCAAGTGG TACAACGCCT GGAACGAGAA 180  
 GCGCAGGNTC TACGAAGAAT AGGGTGAAAA ACCTCAGAAG GGAAACTCC AAACCAGTTG 240  
 GGAGGCNTTG TGCAAAAGGN CTTTTCAGN TTAAAA 276

SEQ ID NO:6672

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07868

SEQUENCE DESCRIPTION:

GATCCTGGAC CAGTCAGAAG CCGAGAAAGC TCGCAAGGAA CTTTGGAGC TGGAGGCTCT 60  
 GAGCATGGCC GTGGAGAGCA CCGGGACTGC CAAGGCGGAG GCCGAGTCCC GTGCGGAGGC 120  
 AGCCCGGATT NAGGGAGAAG GGTCCGTGCT GCAGGCCAAG CTAAAAGCAC AGGCCTTGGC 180  
 CATTGAAACG GAGGCTGAGC TCCAGAGGGT CCAGAAGGTC CGAGAGCTGG AACTGGTCTA 240  
 TGCCCGGGCC CAGCTGGAGC TGGAGGTGAG CAAGGCTCAG CAGCTGGCTG AGGTGGAGGT 300  
 GAAGNAGTTC AAGCAGGTTG CCAGAGGCCA TAGGCCAGC ACCNTNAN 348

SEQ ID NO:6673

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07869

SEQUENCE DESCRIPTION:

GATCTGAGGC CAGCTCCCGT TCCCTGAGCT GCCTCCTGCT TCTCCCTCAA AGTCTCCTAC 60  
 CCTTCTCTTC CTCTTTNAAG CCCTCTCTTC CTCGCTTTCC TTCCTACCTA GCTCCTTGTT 120  
 GGTGAGCTTN TTGTGCCTTA ATNCTGTGAC CCAGGCCCTT ACACCANTTT NCACCTTCCT 180  
 GTNCGGAGNA CAAGNCACT AGCTGCCCCA GGAAGTTGTG TGATTTTAAA TCACTTCTGT 240  
 CTTTGCTGGA AAGTGATTTT GTGCATAAAT AAAAGTCTGN GGATTTGTTA AAAANAAGA 300  
 AAAANACNNA AAAANAACAN TNAAN 325

SEQ ID NO:6674

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07870

SEQUENCE DESCRIPTION:

GATCAATGGA ATAGAATTTT ATTGGAAATG TAAACACTT TCCCAACAAT GGTCATGACT 60  
 TTCTNCTGTT TTTGAGAAGA GTTTCATATG CTGGACCACA TTNAGCTTT TATTGTTTTT 120  
 TTTTNCCTAT TGTCAAAAA GTTAAGCAAC AAGTGGCCAC ACTTTTACGT GNCTACAACC 180  
 TGGAGTTCTG CAAAGAAGGT AATATTTNCT TGGNCTTTGC CTAANGTTAT CTCCCCATTC 240  
 TATGTTTACA TTTTATTTTG GCCTATGGGG CTTTCTAATA CGTTTTGGTA AAGAGGCGAG 300  
 TNTAANGNAA TTNCTTGTC AATTTACCT CAAAGGTAAT TTCNTGCN 348

SEQ ID NO:6675

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07871

SEQUENCE DESCRIPTION:

GATCAACTCT CTAATGGTGC TAATGGCAAT CTAGCTAATG TGCAAATTTA GGAAGTCTTC 60  
AGTACTAAGT ACATAATTTT CAAATAATAT TTTTNAATTG TCTACTTTGG ATGTTAGCTA 120  
TGTCTTGTGN GTATAGGATT CCAATTTTAA GCACTATTTT GATGCAAAAN AATGCATAAN 180  
NAATTTANTT TATAAA 196

SEQ ID NO:6676

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07872

SEQUENCE DESCRIPTION:

GATCATAAAA ATGTGCGCCA ACAACGGCAG GCGCCATCTA AAGCAGCTTC TAAACAGAGA 60  
GAGATGCTCA TNGAAGATGT NGGCAGTGAG GNAGAACAAG AAGAGGAGGA TGAGGCACCA 120  
TTCCAGGAGA AAGATTCCGG CAGCGATGAA GATTTCCTAA TGGACGATGA TGACGNTNGT 180  
NACTATGGCA GTTCGAAAAN GAAAAACANA TNNN 214

SEQ ID NO:6677

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07875

SEQUENCE DESCRIPTION:

GATCCCCCAA GCCTGACGNG CCGNTNACCA TCCCCTCTGC CCTGCAGAGN CAGCCGCCAA 60  
GGNTGACCTC AGCTTCGGAG CCACCTCTGG ATGAACTGCC CCCAGCACCC GCCCCATTAA 120  
AGACCCGGAA GCCTGAAA 138

SEQ ID NO:6678

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07876

SEQUENCE DESCRIPTION:

GATCCATCGC AGAGTCCTAA AGAAGAACCC ACTGAAAAAN TTGAGANTCA CAAGCTCCGG 60  
GTGGATAAGG CAGCTGCTGC AGCANGGCAC TACAAGCCAA ATCAGATGAG AAGGCGGCGG 120  
TTGCAGGCAA GANGCCTGTG GTAGGTAAGA NAGGAAAGAN GGCTGCTGTT GGTGTTAAGA 180  
NGCAGAAAGAN GCCTCTGGTG GGAAANN 208

SEQ ID NO:6679

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07878

SEQUENCE DESCRIPTION:

GATCTCCTGG AGGCTACAGG GAGCAGAGGC GATGCCCCGA GCGGCGAGCG TGTTCACAGG 60  
 AGCAGGTGGG CAGGGGCCCTT GCAGACTCTT CATTCTTCC TTCCCTTATC ACCGTTAGCC 120  
 ATTTNATGG GATAGAGATA CAGAGGAGCT CCCATTACAA AGCGCCATTA AACTGTCATC 180  
 TGTGCAAA 188

SEQ ID NO:6680

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07879

SEQUENCE DESCRIPTION:

GATCTTGGTG GTAGTAGCAA ATATTCAAAC GCAAA 35

SEQ ID NO:6681

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07880

SEQUENCE DESCRIPTION:

GATCTTCCGT GGTGAGAGTG CCACTGCGGG AGCTCTGTAT GGTGAGGATG TAGGGGTAA 60  
 CTGAGTCTAT GAGTTGGACT TCAGTCTTGC CTAGGCGATT TTTCTACCA 120  
 TTTGTNTTTT GAAAGCCCAA GGTGCTGATG TCAAAGTGTA ACAGATATCA GTGTCTCCCC 180  
 GTGTCTATC CCTGCCAAGT CTCAGAAGAG GTTGGGCTTC CATGCCTGTA GCTTTCCTGG 240  
 TCCCTACCC CCATGGCCCC AGGCCACAG CGTGGGAAC CACTTCCCT TGTGNTN 297

SEQ ID NO:6682

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07881

SEQUENCE DESCRIPTION:

GATCCAAGAT ATCACTTAGA AA 22

SEQ ID NO:6683

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07882

SEQUENCE DESCRIPTION:

GATCCAGCTG TGGTCCAGA GCAGTGAGCT GGTGAGCTGG GCAGATGGGG GCCAGCACAG 60  
 CAGNATCCAC CCAGNCTGAG GCTCAAGCTG CCCTTACCAC CCCATCCCC ACGCAGGACC 120



AACTACCTCC GTCAGCAAGA ACCCAAGCCC ACATCCAAAC CTGCNTGTCC CAAACCACTT 180  
 ACTTCCCTGT TCACCTNTGN CCNACCNCAG CCCAGAGGAG TTTGNGCCAC CAACTTCAGT 240  
 GNCTTTTGT ACCCNAAGNN AGCACAAGAT TGGACCAATA NTTTTGNAG TN 292

SEQ ID NO:6684

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07883

SEQUENCE DESCRIPTION:

GATCTGCCTT AGCCTCACTG CTTGCCCTTA AGTGGTGGA TTGCAGGTGT GAGCCACTGT 60  
 GCTGGCCTCA AATAGTTTNN ATCAAAGCTA CTTCAATTAG TGGTTAGCAA GGCTTAAAGA 120  
 CTAATTCAGT GCTTTATTTT NACACTNGNT CGCAACATGT TGCTTTTTTN CCTGTGTCCT 180  
 ATGGGACCTA GTCATCTGTA TGTNAGATTC ACAGAGGAAT TAAAGAGATA AACATGCATG 240  
 TNCTAAA 247

SEQ ID NO:6685

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07884

SEQUENCE DESCRIPTION:

GATCCACAAC TACACACATC ATAACCACAC CATCAA 37

SEQ ID NO:6686

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07885

SEQUENCE DESCRIPTION:

GATCTCTGAG GAGTCCCTG GGGACAACG AGCAGCCTCT GGAGAGGGGC CATTAAATAA 60  
 GCTCAACATC ATTGNACNAA A 81

SEQ ID NO:6687

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07886

SEQUENCE DESCRIPTION:

GATCAGCCTT TCCAGGTGCT TTAGTCGTTT GCCTAGACAC GTTCCTGTG CCTCTGACAG 60  
 CTGCAGTTGC TCTGCGCTGC TAGACATGGT GGACATTNA GCAGCCTGAC CTGTGGGGAG 120  
 GGGGTCTCTC CCGAAGAGTT TCTGTTTTTA CTCAAAATAA TGTATTCTC AGATGCTTGA 180  
 TGCATGTTG GAAATGTGCT CNATTTAATC ATGCAGATAA ACCATTAAA TGTCAA 237

SEQ ID NO:6688

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07887

SEQUENCE DESCRIPTION:

GATCTCTTGA GCCCAGGAAG CCGAAGCCAC AGTGAGCTGT GATTGCACCA CTGCACTCCA 60  
GTCTGGGTGA CAAGAGTGAG ACCCCATCTC AAA 93

SEQ ID NO:6689

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07889

SEQUENCE DESCRIPTION:

GATCGCAGCA TTGCACTCCA NCCTGGGCAA CAAGAGTGAA ACTCTGNCTC AGAAAAGAGA 60  
AA 62

SEQ ID NO:6690

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07890

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTCAGCCTC CCAAAGTGCT AGGATTATAG CCACCGCACC TCGTCTTGAA 60  
ATAGCCTTT AAATGTTTAC CTCAGCTTGC CTCACAGTGG GTCTGTTTCT GGTTCCTCAG 120  
ATGCATAAAG GAAGACATAT CCCTCCCCTG GGNAGCAAGG CTACAATGGG AGGGAGGGAG 180  
AACATGGGAG CATGTGAATA AAATGGCATT AANTACTGAA A 221

SEQ ID NO:6691

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07891

SEQUENCE DESCRIPTION:

GATCATCAAG AAAAAAGAAA CTTAAATGGA CACTTTTAAT GCTGCAAATN AGCTTGTCGT 60  
GAAGTTACCT GATTGTNTAA TTAGAATGAC TACCACCTCT GTCTGATTCA CCTTCGCTGG 120  
ATTCTAAATG TGGTATATTG CAAACTGCAG CTTTCACATT TATGGCATT GTCTTGTTGA 180  
AACATCGTGG TGCACATTG TTTAANCAAA 210

SEQ ID NO:6692

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07892

SEQUENCE DESCRIPTION:

GATCTGTCAT CTTCATAGCA CAACAAAACG AAATGATGGA AATNCTCTTN AGCTCACAAC 60  
 ATTTGTTTTN CTTTAAAGT AAATGCAAGT ACCAAAGCTC ACTACTGCGG TTTGCCTGTN 120  
 CCTGGNCANT GAGGCGGAGC NCTGTTGTTT TGTGGGGCA CCCCCTTN 169

SEQ ID NO:6693

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07893

SEQUENCE DESCRIPTION:

GATCTCTGCT TACCGTTCAA GAGGCGTGTG CAGGCCGACA GTCGGTGACC CCATCACTCG 60  
 CAGGACCAAG GGGGCGGGGA CTGCTGGCTC ACGCCCCGCT GTGTCCTCCC TCCNTCCCTT 120  
 CCTGGGCAG AATGAATTCG ATGCGTATTC TGTGGCCGCC ATCTGCGCAG GGTGGTGGTA 180  
 TTCTGTCAAT TACACACGTC GTTCTAATTA AAAAGCGCAT TATAAA 226

SEQ ID NO:6694

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07894

SEQUENCE DESCRIPTION:

GATCTCTTAA ATAACTTGC TTCTGGTTAA A 31

SEQ ID NO:6695

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07895

SEQUENCE DESCRIPTION:

GATCTAAATT TGTTATTTA AGCTGCAAGN AAGTTACATT AATTTGGAAT GTGTCATCAC 60  
 TTGGNCCCAG TATATCAGAT TTTNATTGAG TAAAATGTTA AAAATAATAA GTGTAATCA 120  
 GATTCTGGAT GTNCGNGTTT ACAATACATT GCCTGTAATA AAAGCTGATT CTGANGTGCA 180  
 AA 182

SEQ ID NO:6696

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07896

SEQUENCE DESCRIPTION:

GATCCCAACC CTGTGTCCTG CCCTGACCCC TGTCTCCCA CTCGTGGCAC TGTCAGCCCA 60  
 GNCCTCCCTA CCGGCGAGAG TCCAGAGTGG GTACAGGAGC AAGGGGCACT GCTGGGGCCT 120  
 GATGGCTGAA GGAGACGCCG GCATCCTCGG GGGCCTGGGG AAGTTGTGTG TTGTGCAGTC 180  
 AGTAAATCC TCCCACTGCN AAA 203

SEQ ID NO:6697

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07897

SEQUENCE DESCRIPTION:

GATCAAATGA AATAATGTAA CGTGAGNATA CAGTATAAAT GATAAAGGAA A 51

SEQ ID NO:6698

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07898

SEQUENCE DESCRIPTION:

GATCTCCGGG CAGCCACCAC CTCCTCGGTC TGCCCCNTCA TTAAAAAGTC CTCCTTCCAT 60  
AGAAA 65

SEQ ID NO:6699

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07900

SEQUENCE DESCRIPTION:

GATCTAGTGC CTAGTGTTC TTTTCTGATG TAATAAAAGG TGGTCTGGCA GAACCTAAA 59

SEQ ID NO:6700

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07901

SEQUENCE DESCRIPTION:

GATCCAGAGC CACAGAAAGA AATGTAGGTG TGAAGTATTA GGCTGCTGTC AGGGNGAGGA 60  
TGGCAGATGG AGGCATCAAG CACAAGGAAA ATGCACAACC TATGCCCTNT TATACANNNN 120  
GTTTCATGTN 129

SEQ ID NO:6701

LENGTH:39

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07902

SEQUENCE DESCRIPTION:

GATCTTAAGT TTACAATTAA AAACCTCAGTA CTCAATAAA 39

SEQ ID NO:6702

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07903

SEQUENCE DESCRIPTION:

GATCCCCCG GGCATGGCCT GGGCTGGTTT TGAATGAAAC GACCTGAACT GTCAAA 56

SEQ ID NO:6703

LENGTH:31

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07904

SEQUENCE DESCRIPTION:

GATCCTTTTA AAATAAAAAT NTTGATGCAA A 31

SEQ ID NO:6704

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07905

SEQUENCE DESCRIPTION:

GATCAGGAGC CTTCAATAAA ACAGAAATTT TAGGGAAAAC CACAAAAACC TTCGTAAAGT 60  
GAATTGCATT AAACATCAAT TATAATAAAA TTTCATATTT TGANTAAA 108

SEQ ID NO:6705

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07909

SEQUENCE DESCRIPTION:

GATCAAAAGG GACAAGCATC AAGCACAAA 29

SEQ ID NO:6706

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07911

SEQUENCE DESCRIPTION:

GATCATGGGC AAAATCTAGC CACAGTCCTG AGAGTCCAGG CTTCTGGGAT GCCCAGCTGG 60  
GTATAAAAGT CCCTACTAAC CCTGNTTCAA ATTCAGAGGT TTCTTTGGTT NAGAATGCCT 120  
CAATGAGATT TTGATACATC CAAGAGCGCA AA 152

SEQ ID NO:6707

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07912

## SEQUENCE DESCRIPTION:

GATCTAAAAA ATACAAAATG TAGACAATTA CTATTCAGGT GCTTACTTTT AAGCCAATAT 60  
 GTAGCAGNGN AAAACTAATT TCTCTGTGGC AGTATTTTAA TTTTGGNAT GTCCCGGNN 120  
 TTAACGTAN 129

SEQ ID NO:6708

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07913

## SEQUENCE DESCRIPTION:

GATCCGCACT GGGGGTTCTG CAGGGTGGGG NCAACCACAG CCTGTCACAA GCTCACCCTC 60  
 AGCCTCTNTG GNGCCATTCT GCAGCATGAA GTCCCTATCA CCCACATAAT AATGNGNN 118

SEQ ID NO:6709

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07915

## SEQUENCE DESCRIPTION:

GATCTTTCCC AGTATCTNNA GTGGGTGACC ACACTTGTCA GTGGGAGNCT NTGAAACTAC 60  
 CCTATCGNCT CCTTAAGGGC GGGATGAACT GCTTGTGAC TTGGAAAGGT ACGCTGCTGG 120  
 CCAGCATTGG AGANGAAGCT NCTGAGCAN 149

SEQ ID NO:6710

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07916

## SEQUENCE DESCRIPTION:

GATCAGGTGG TCAAGGTGCT GCACGATGCC CAGCAGCAGT GCCGAGACGG CCACCCGGTT 60  
 GTGGTCAACA TCCTCATTGG GAGGACGGAC TTCCGCGATG GCTCCATTGC TGTATAGGGC 120  
 CTTGTGGGTC AGNACGCTTN GCTGCCTTCC TACCCCTGGA CTGTNTCCAA NTGGTTTNG 180  
 AGTCTCATNA TTGCTTACCC CTGGNGCTNA TCCCATGAGG NCCCANTGNA CTTCAN 236

SEQ ID NO:6711

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07917

## SEQUENCE DESCRIPTION:

GATCCGCAAA GAGGAAGACC GCCTCTTCAT TCTCAGGACC NTCACCTATT GATGGGAATN 60  
 TGTGCGGGCT CAGGGTTCCCT NNACACACTA GNTGTGGGAA GCCATAGGAG CCTCCAGATG 120  
 GGGGCTGGCC TCTCTTGCCC AGCNAGNGGG CAGGGCCTGT GGGNTGGTGA ATN 173

SEQ ID NO:6712

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07918

SEQUENCE DESCRIPTION:

GATCACGNCA TGGCACTTCA GCCTGAGCGN CAGAATGAGA CTATTAAA

48

SEQ ID NO:6713

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07919

SEQUENCE DESCRIPTION:

GATCGTGTCA CTGAACTCCA GNCTGGGTAA CAGTGCGACT CTGTCTCAAA

50

SEQ ID NO:6714

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07920

SEQUENCE DESCRIPTION:

GATCTTTGTT TAAATGCCAA AATGTACTTA AATGAGTTAC TTAGAATGCC ATAAAATTGC 60

AGTTTNATGT ATGTATATAA TCATGCTCAT GTATATTTAG TTACGTATAA TGCTTTCTGA 120

GTGAGTTTAA CTCTTAAATC ATTTGGTTAA ATCAAA 156

SEQ ID NO:6715

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07921

SEQUENCE DESCRIPTION:

GATCGATACC CCCACCCCTC CACTNGCCAG CCTGGGGGTG CCCTGCCTGC CCTCCTGGTA 60

CTGTTGTCTT CCCCTCGGCC CNNTCACATG TGTATTCAGC AGCCCTATGG CCTTGGCTNT 120

GGGCCTGATG NGNAGGGGTA GAGGGAAGNT GAGCATAGCA CATTTTCCTA GAGCGNGAAT 180

TGGGGGNAAG CTGTTATTTT NATATTAN 208

SEQ ID NO:6716

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07922

SEQUENCE DESCRIPTION:

GATCACGACA CTACACTCCA GCCTGGGGGA CCGGGCAAGA CTCTGTCTGT CTTTAAA

57

SEQ ID NO:6717

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07923

SEQUENCE DESCRIPTION:

GATCTTGAAA AAAAAAGCAA AAGCTTAAAT ATTTGATACA AGTTTACTTA GCTACAACAT 60  
ACTTTACATT GTTGCCCTTA GTTATCTCAC AGGCACTGAC ATTTTATATT TAGAAAATAC 120  
TTTAAATCTT NCTAATCTTT TTTTGTAAT ATTAGTGTC ATTCTGTATG ACTCGCTAAC 180  
CTACTTTGCA AGGCTTTGGG CAACATTTTA GCTCATTAAAC TTCAAGATGA TGTGTCATCT 240  
GTATAGGTCA AAGAATGGG CTTCTGAACT GAGGAATTTT GCTGTGACA GCCAAAGTNT 300  
AGTGACAAG GTTTGATGNA ACTNGNTTAT GTN 333

SEQ ID NO:6718

LENGTH:57

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07925

SEQUENCE DESCRIPTION:

GATCTTGGAC TTCCAGCCT CCAGAATTGT GAGAAATAAA TTTCTGTTGT TGATAAA 57

SEQ ID NO:6719

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07927

SEQUENCE DESCRIPTION:

GATCTTTGCT TAATAAGANG AAAAAAGAGG CAAGGAGAAA ACGAAGAGAA AGAAATTTTG 60  
AAA 63

SEQ ID NO:6720

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07928

SEQUENCE DESCRIPTION:

GATCCNGTGT TCTTCTGTGA AA 22

SEQ ID NO:6721

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07932

SEQUENCE DESCRIPTION:



GATCCGGCTT GGACAGGCAC CTGAGATGGT GCCAAAGTGC AGCTGACTCT TCCCACGACA 60  
 GCCCTGCCCT: TCCCATGAGG CAGGCTCTTC AGTGAGTGTT TGAACGTAAT TATGTAGTTT 120  
 TCTGTTTAAT TGAAAAAGNG AGCTATGCCT TTTTCTTT TTGGANGTAA AGCAGCTAAA 180  
 ANCAA 186

SEQ ID NO:6722

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07933

SEQUENCE DESCRIPTION:

GATCCAGGTG TTTGTTCTA ACTTCTGTAA TACATACAAT GCAAA 45

SEQ ID NO:6723

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07934

SEQUENCE DESCRIPTION:

GATCATGGTG ATTTNACTGC TGCTTGTGGN TATCGTGTT GTTGCAGTCT GGCCGACCAA 60  
 CTGATGGCAG TAAAGAGACC ACCAGCAGTG ACACCTGCCA ATNACAGATG CAAGCCCAAC 120  
 ACCCTNTTGG TACGCAAAAC CTNATCTCAA TAAATCCCC CAAAGCTCTG AAA 173

SEQ ID NO:6724

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07935

SEQUENCE DESCRIPTION:

GATCCCAAGC CCTGCATTGT AAGCCCACAG TAGGCACTCA ATAAATGCTT GTTAAAGGAA 60  
 A 61

SEQ ID NO:6725

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07936

SEQUENCE DESCRIPTION:

GATCTGCAG AAGAATAACC TGAATCTGCT CAGAGACCTA AGCTGTGCAC ATTGCCCATA 60  
 GCCTCAGGAA CAGTCCAGAC TGGGGCGGTG TGGTCATATT ACACAGNNAG GAGGGTGATT 120  
 CAGAGTTCAT GAATATCATT GCCAATNAGA TTGGGTCAGA GGAGACCCTC CTGTTCTTAA 180  
 CTGTGCGCGA TGAGNAAGNT GGTGGNCTNT TTTACTGGC AGGGCCACNA NCGCTCATGT 240  
 GGAGACCCNG GGGCCAGGG TGGCTGATN 269

SEQ ID NO:6726

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07937

SEQUENCE DESCRIPTION:

GATCCCTCAT CCCTGAAATT GAGTTTATGT AGTCATTTTA CTTATTTNAT TCATTAGCTA 60  
ACTTTGTCTA TGTATATTTN TAGATATTGA TTAGTGTAAT CGATTATAAA GGATATTTAT 120  
CAAATCCAGG GATTGCATTT NGAAATTATA ATTATTCCT TTGCTGAAGT ATTCATTGTA 180  
AAACATACAA AATAAACATA TTTNAANACA TTTGCATTN ACCACCAA 229

SEQ ID NO:6727

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07938

SEQUENCE DESCRIPTION:

GATCCATGAA CTCTGACCCC TCCCCAGTAA AGGCTTCTGT AGAGAGCAAA 50

SEQ ID NO:6728

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07939

SEQUENCE DESCRIPTION:

GATCCCCGCA CCAGCCTCTC CTCTCTTTCC CTGCAACCTG TTACCTCACA CAGCTGCTCA 60  
GGAACAGCAG AAATAGTAAA ACTCTTCCAT ATATGTGGCA CCTCAGCCGC CCCTCCNTTA 120  
AA 122

SEQ ID NO:6729

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07941

SEQUENCE DESCRIPTION:

GATCAGGAAG TTCTTAGATT CTTGGATGAC AGATGCATGT TGATGCCCTA TGGAGATGTC 60  
CTTNTGTTTT GAGGTCACCTG AGGTAGGAAG ACCTGTCTAC TCTTGGTTTC ACCACTAGAA 120  
CAGTCTTGGG CTGGATGGGT TATAGAGCTG AGCGGCTGTA ATGGTTCTNT TTTTACATTA 180  
ACAAAAACAA TTA AAAACAC CAAAAACAAC AAA 213

SEQ ID NO:6730

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07942

SEQUENCE DESCRIPTION:

GATCCCAGGN ATTCAAGGT AGAGTGAGCT ATGATTGCAC CACTGTACTC CAGCCTGGGC 60  
ANCAGAGANN GACCTGTCTC ACAA 85

SEQ ID NO:6731

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07944

SEQUENCE DESCRIPTION:

GATCCAGCTG GAATTTGAGG ACACTGGAAC AATGAGGTCA GCTTCAAAA CAAAACAAA 60  
CAAAACTTTA AACATCTGTG TAAGTACAGG GTGGAATATA ATGAATTCCA GGTACCCATC 120  
ACTTAGGTTC CACAATTAGC CATGGCCAAT CTTGTGTGAT AGGTATGTCC CTACCTATTT 180  
CTCCCGTCC CTNATTGTGA AGTAAATATT TTCCTAAAAG GTCTTTTAA AATTAAGTTA 240  
TAACCATGCC ATCATTGTAC AAANNTAATG CTATTANNTT CCTTANTNTN ATCAAATNTT 300  
CNNGNCTNAN NTN 313

SEQ ID NO:6732

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07945

SEQUENCE DESCRIPTION:

GATCACTGA ACCTAAGAGT TTGAGGCTGC GCACTGCACT CTGGCCTGAC AGAGCGAGTC 60  
ACTGTCTCTT AAA 73

SEQ ID NO:6733

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07946

SEQUENCE DESCRIPTION:

GATCTGAATT CTAATGCTGG CTTGTGCCTC TAACTATGTG GTTTGGTCAT TATAGATAAT 60  
GCCCAGTTA ANTTTCCCA TCTTTGAAA GGAGATAATA TGTNATCTCT TGGGAGTAGT 120  
TCTGAATATG AAGTGTGTTG ATACAAGAAG CACTGACAAT GTTCTGTNN NNNAAATTTA 180  
AAACTGGCCT GGTTCGCTT TTTAATCAAG NGNGCTTAAC AGGTAAAAAN TTGGAATTAG 240  
NCCTAAAAAN AAAACN 257

SEQ ID NO:6734

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07948

SEQUENCE DESCRIPTION:

GATCCTTTAG CCTCCTGGNA GTGCCCCAGT TGTACCCCT ACACACCCT CTTGGCATTG 60  
AGTGCCAGTC CTCTGCCAGG CTNTGTGTTA CAAGTTGGGG NGGCGGCAA AGTACCGAAT 120

TAAAGATGTC AGTTCTAAAG GAGGNAAA

148

SEQ ID NO:6735

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07949

SEQUENCE DESCRIPTION:

GATCATATCC AATTCATATG GAAGTCCCGG GTNTGTCTTC CTTATCATCG GGGTGGCAGC 60  
 TGGTTCTCAA TGTGCCAGCA GGGCCTCAGT ACCTGAGCCT NAATCAAGCC TTATCCACCA 120  
 AATACACAGG GAAGGGTGAT GCAGGGAAGG GTGACATCAG GAGTCAGGGC ATGGNNTNGN 180  
 NAGATGANTA CTTTGCTGGA TGAAGCAGGC TGCAGGGCAT TCCAGCCAAG GGCACAGCAG 240  
 GGGACAGTGC CGGGAGGTNT NGGGTAAGGG AGGGCAGTNA CNTNAGAAA 289

SEQ ID NO:6736

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07951

SEQUENCE DESCRIPTION:

GATCAGGCTT TTAAATACTC ATTTACAAGT TTTCTATCCT CCTTCAGTGT TAAAGTAGAA 60  
 AGTAAAAAGA GTATCTNATA CATGCATGAA ATTAAAGCAT ATACCAAATG CAAA 114

SEQ ID NO:6737

LENGTH:229

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07952

SEQUENCE DESCRIPTION:

GATCACCCAG CATCCTTCCC CACCCAGCT GTGTATTTAT ATAGATGGAA ATATACTTTA 60  
 TATTTTGAT CATCGTGCCT ATAGCCGCTG CCACCGTGTA TAAATCCTGG TGTATGCTCC 120  
 TTATCCTGGA CATGAATGTA TTGTACACTG ACGCGTNCCC ACTCCTGTAC AGCTGCTTTG 180  
 TTTCTTTGCA ATGCATTGTA TGGCTTTATA AATGATAAAG TTAAAGAAA 229

SEQ ID NO:6738

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07953

SEQUENCE DESCRIPTION:

GATCTCTGT NCTTTAATTT TAGGGTCTTG TTCCAGGACT CAAATCAGTA ACTTGGTGAT 60  
 TACAAGGTGC TGAATGTGTT GGTAAACATA TCGCAATACA CCTCAAGGAA AAGGTTTACA 120  
 TTTTNAATTT TAAAATATTT NCATTTTTTC CTTGAATTN ATATCCGTTT GTCCACTCGT 180  
 ACATGCCTAG CCTACAGAAG GGGATATATA TNATGANATG GTCATTTTCC TGAAGNGNAT 240  
 ATTTTGCTTG AAATGCAAAG GNCTGAAAGN GNTTTGTAGG TTGTTGGTTT TTTCN 295

SEQ ID NO:6739

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07954

SEQUENCE DESCRIPTION:

GATCATAACA CTACTCCAGT CTGGGTGATG AAGTGAGACC TGTCTACAAA AAAAAGAAGC 60  
CCAAACTAAA CCTAAAGCAA GCAAA 85

SEQ ID NO:6740

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07955

SEQUENCE DESCRIPTION:

GATCAGGCTG GTCTCAAACCT CCTCGGTTCA AGCAATTCGC CCACCTTGGC CTCCCAAAGT 60  
GCTGGGATTA CAGGGGAGCC ACTGCACTGG CCTTCATTGT CTTTTGCTG CACAACCTAA 120  
AAAACCAAGT ACCCTGTATT GGAAA 145

SEQ ID NO:6741

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07956

SEQUENCE DESCRIPTION:

GATCCTAACA TGTATTGATT GTAAAAGTGA AATATGTAAT AGCCACACTT CACTGTTTAA 60  
AAATAAAAGT GCAATTTCAA A 81

SEQ ID NO:6742

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07957

SEQUENCE DESCRIPTION:

GATCTGTCT CCAATTAAAC CGAGGCTTTC ACCGATAAAA AAAAAACAAA 50

SEQ ID NO:6743

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07958

SEQUENCE DESCRIPTION:

GATCTGATGA AGTATATNTT TAATTGCCAT TTTGTCCTTT GATTATATTG GGAAGTTGAC 60  
TAAACTTGAA AAATGTTTTT AAAACTGTGA ATAAATGGAA GCTACTTTNA CTAAG 115

SEQ ID NO:6744

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07959

SEQUENCE DESCRIPTION:

GATCGGGCTA CTACAAAGTT CTGGGAAAGG GAAAGCTCCC AAAGCAGCCT GTCATCGTGA 60  
 AGGCCAAATT CTTCAGCAGA NGAGCTGNGG AGAGATTAAG AGTGTGGGG GGGCCTGTGT 120  
 CTTGGTGGGT TTAAGGCNCA TTGGNGGNA NTTATTNAA TTNTACTTC TTTN 175

SEQ ID NO:6745

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07960

SEQUENCE DESCRIPTION:

GATCAAAAGT AACACGTNNA GACTCTGAGC TTAATCCATT AAATGGATT NAGCATCTAA 60  
 A 61

SEQ ID NO:6746

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07961

SEQUENCE DESCRIPTION:

GATCATNAAC TACTGTGGT ATNTGGAAGT CTAGGTTCTG GTCCTGCTAC CCCTTTAACT 60  
 TGAGTNATTT ACAAGTCTGT TTTAAAGTT CTAGACATAC ACTGGTTTGN TTTTAAA 118

SEQ ID NO:6747

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07963

SEQUENCE DESCRIPTION:

GATCGCCCAA CGTTTTGGN TTATAGAATT ATTATTCCT GCTTCTTTC TTGGGTCTT 60  
 TTGAATTTCT TTGGTTTCGT NTTAAGAAG TAACCCANCA TTTCTACAA CACTAAATAA 120  
 AATGGTACTT ACCTTCAAA 140

SEQ ID NO:6748

LENGTH:68

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07964

SEQUENCE DESCRIPTION:

GATCCCCGTT CCACCCCAAG AGAACTNGCG CTCAGTAAAC GGGAAACATGC CCACTGCAGA 60  
CACGTAAA 68

SEQ ID NO:6749

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07965

SEQUENCE DESCRIPTION:

GATCCCCCT GCCTATCAGC TTCTCCTGTG GNGCCTGTTC CTCACTGGAA ATTGGCCTCT 60  
GTGTGTGTGT GTGTGTGTN 79

SEQ ID NO:6750

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07966

SEQUENCE DESCRIPTION:

GATCGAAAGG GAGGCAGGTT TGCCTAAA 28

SEQ ID NO:6751

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07967

SEQUENCE DESCRIPTION:

GATCTCAAGC CAGCCCNCTC CAGCTCATGA CACTGTTTGG CCTTTCTTGG GGAGAAGGCG 60  
GGGTATTCCC ACTCACCAGC CCTGGCTGTC CCATGGGGAA ACCCTGGAGC CATCCCTTNG 120  
GAGCCAACAA GACCGCCCCA GGGCTATAGC AGTAAGAAGT TTAAAGCTCA GGAGGGTGAC 180  
GNCCAGATNC GNCTGCTGGG AAGAGCTCCC CTNCACAGCT GCAGCTGAAT GCATTAGGGC 240  
TACCGNAGGN CCCGGACTTA NCAAACTTGG NCNACAANNG TTCCTAGGGN TTTN 294

SEQ ID NO:6752

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07969

SEQUENCE DESCRIPTION:

GATCCCCAAG TGTGAACAGT CTGAAAAGGG CTTTTGCTT GCTGCAGGGA CCTGAGAATT 60  
GAGAAACAGC TGTGAAACTT TGAACCTGG CTGGAAGGTC CTGGTATTGA CTGTGGCANG 120  
AAAACGGGGG AGCTAATCTG TAATCTGCTT AGACGCCAAA 160

SEQ ID NO:6753

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07971

SEQUENCE DESCRIPTION:

GATCAGATTC ACGGACCCAG AGCTTTTCCA TGTGTTTATA TTGTAAATAT TTTTNATTTC 60

ATCAAATTAT TTATTCATTA AAAGAAATTT TTGTGAAA 98

SEQ ID NO:6754

LENGTH:35

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07973

SEQUENCE DESCRIPTION:

GATCCTGTCT CITAGGAAAA AAGAAAACCT CTAAA 35

SEQ ID NO:6755

LENGTH:64

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07974

SEQUENCE DESCRIPTION:

GATCAAAGAC CCTGCCTCTA TTNACCCCG CACTGACTGA ATAAAGCTCC TCTGGCCGTT 60

NAAA 64

SEQ ID NO:6756

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07975

SEQUENCE DESCRIPTION:

GATCATCTGA GCTGAAGAAA TAAAAAACA CACACAAA 38

SEQ ID NO:6757

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07976

SEQUENCE DESCRIPTION:

GATCATTCAT ACACATATAT TATTTTINCA TTAAANTATT TTAAACCTT TGGAAA 56

SEQ ID NO:6758

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07977

SEQUENCE DESCRIPTION:



GATCTTTCAT CAAGATTTTA CCTGCATTTA TGTCTAAGGG TCCCTGATAA GGCTTGAGGC 60  
ATGTAACCTA TGTCTAATTA AAAATGATTT GTTGAATGAA NCAAA 105

SEQ ID NO:6759

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07981

SEQUENCE DESCRIPTION:

GATCTACAGA AGCTTTNATT CTCTTACCTT AACAGTAGTA ATAAAGTTAA CATTNTCACA 60  
TCAAA 65

SEQ ID NO:6760

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07986

SEQUENCE DESCRIPTION:

GATCTGTGTG TTGTGGGAAG AGAATTTTCA ATATGTAAC AC GGAGCTGT AGTGCCATTA 60  
GAAACTGTGA ATTTCCACAT AAATCTGAAC ACTTGTCTTT ATTAAA 106

SEQ ID NO:6761

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07987

SEQUENCE DESCRIPTION:

GATCTCATGG CTTTGATTGN TTTGGGCTGT TCAAAATGTT TATTGNAAA ACGTATACAT 60  
TAATAAACTT AACAAAGCGN TATAAAATAC AGCGNAATCA CCCAAA 106

SEQ ID NO:6762

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07988

SEQUENCE DESCRIPTION:

GATCGAAAGG GCCACCATGA ACTTGATACG TCCGTGTGTC CCAGATGCTN NCATTAGTCT 60  
ATATGGTTCT CCAAGAACT GAATGAATCC ATTGGAGAAG CGGTGGATAA CTAGCCAGAC 120  
AAAAATTGAG ANTACATAAA CAACGCATTG CCACGGAAAC ATACAGAGGN TGCCTTTTCT 180  
GTGATTGGGT GGGATTTTTT CCCTNTTAT GTGGGATATA GTAGTTACTT GTGCCAAGAN 240  
TAATTTTGGC ATNATTTCTN TTANTATCAA CTCTGANGCT AACTTGTACT AATCTGAGAT 300  
TGTGTNTGNT CCNANTAANC GTGANGTGAA CCTGN 335

SEQ ID NO:6763

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07989

SEQUENCE DESCRIPTION:

GATCTTGGAG ACAGGCCATC CATCCTGGAG CCTCATGGAA CAGGATGATG GCACTGAGAA 60  
AGCCAATGAC CGAATCTCTT TTCTCTGTAA AAATGTAGAC TGAAAAGCCA TGTGTATTTT 120  
CCTATGTGCT GTAGCTCTCC TTTGGAAATA AATCACAGGC ATCTGGAAA 169

SEQ ID NO:6764

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07990

SEQUENCE DESCRIPTION:

GATCTGGGCT GCAGGAGCTG GGGCCACCCA CAGCCCCCT ACCGACCTGG TGTGGAAGGC 60  
ACAGAACACC TGGGGCTGCG GGAACAGCCT GCGTACGGCT CTCATCAAAC TCACTGGGGA 120  
AGAAGTGGCC ATGCGGAANT GGTGCGCTCA GTGACTTNTG GTTNAGGACG NCGNGGNTTG 180  
AGGATTGAGA NTACNTATT CATTNACCAC NN 212

SEQ ID NO:6765

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07991

SEQUENCE DESCRIPTION:

GATCATACCA CTGCACTCCA GCCTGGGCGA CAGAGAACCT CTCTAAAAA AAAGGAAAAT 60  
NAAAAATAAA TGGGGGCAGA AGCTGAGCCA AGCAGAGGCG GGCAGCTCCT CCTCCAGGGC 120  
CCACCTGGCC TGCTGGGGAA A 141

SEQ ID NO:6766

LENGTH:360

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07992

SEQUENCE DESCRIPTION:

GATCTGTTAT NAAACGAAAC ACCCCCCGTG TTAATAACTT GGTATGAAAT CTGTTTTTAT 60  
GAGCCGGGCC CCCTGTGCCT CTAGTATACT TGTATTGACT CTCATAGTTA CCCTTTTAGT 120  
TTTACTGTGT TCTGTGAAAA TTTGTAATTG GTTGNGAATC ACTGTGGGCG TCCATTCTTA 180  
TTCAACTAAA TCTCCACAGG TTTTGTGAGC TGGTGTGGAT TAGTTTAACT CTTGTATTCA 240  
ACCATTAGTG CTACCACCTT CTCACATTAC AATACANTTN CTGGAAGCAA GTACTGCATT 300  
TCCTATGCAA CAAAAAAGG GCAAAANTAC ANANATTGCT AAATGATAAA CAAANACTTN 360

SEQ ID NO:6767

LENGTH:88

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07994

SEQUENCE DESCRIPTION:

GATCAAAAGG GCTATGGGAA GGGCAGACCC CGCCAATGAT TTCTCTTCAC CTGTCTTAAG 60  
ATTAAATAAA AAAGAGTGTC CTGGCAAA 88

SEQ ID NO:6768

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07995

SEQUENCE DESCRIPTION:

GATCTTGCCA AGAACCATCA CGTGTTAATT TAGTTGCTTA AACAAAAGGT GTTCTGTTTC 60  
TTAAA 65

SEQ ID NO:6769

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07997

SEQUENCE DESCRIPTION:

GATCAGTGGT GAAATATAGT GATTTTNACC TGTGCTTCCA TTCTGAAGTT CTGGAAAGAA 60  
GTACTGGATG GACTGAAGTC CAGGACAACG TTCCAAAGAA AGGCAGAGTC CAGGTAGGCT 120  
TGGAGGACCA AGCCCTGGAT GAGCACTGGA GGGCAGAGGC CTCAGTGTCC AGCACTGTGC 180  
CCTGCACATG GAAAGCCCT ACGTTTGTGG AATNAATGAN TANTAAAAAT ATTTTNATNA 240  
GTGAAA 246

SEQ ID NO:6770

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07998

SEQUENCE DESCRIPTION:

GATCCTGTCC CTGCCCTGCC AAA 23

SEQ ID NO:6771

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS07999

SEQUENCE DESCRIPTION:

GATCTGTATA TCCTCCAGTC CAAGATTAAA GAGGCGGACT GTGAAA 46

SEQ ID NO:6772

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08000

SEQUENCE DESCRIPTION:

GATCCAAACT CATTCTTNCT GTAACCTCAT GATGACGTAT AACNTTTTC ACCTCACTNG 60  
GAGGTTGGNT CTNCATTCTG AAGGCTTCTA TGTATACATA TTAAATAN 108

SEQ ID NO:6773

LENGTH:218

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08001

SEQUENCE DESCRIPTION:

GATCAACGAC GACCTTTTTC CTTTNNATAC TAAAGTAAGA AATAAGAATG TNAGCCCAAA 60  
CTGCACTATT TTGCAGACCC CTACCATTTT ACAAAGTGGT CAGAGTGGAA AATTCCACCA 120  
GGGCCTGAGC TGTGAGAAAC ATCCTGTCAG GCAGGNCCCA GGNCTNAACC CCTGGCTGCA 180  
CTAANTTNCT TCATNATCAN CAGCCTAACA NACCGTCN 218

SEQ ID NO:6774

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08002

SEQUENCE DESCRIPTION:

GATCAACAGT GCAGAGAATC TAGCAAGTAT AAAAGAAA 38

SEQ ID NO:6775

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08003

SEQUENCE DESCRIPTION:

GATCTGCAAC ATGAANCCCG AGGCATGGGT TGGTGTGATG CCAAGGCAAA GTGGTGAGGA 60  
GAAAACAGGA AACGGNCTTT CTCTGAATTG GTAAATGGGA AAGAAGTGAG CAACTTAAGA 120  
TTGTCACANT TAATCACAAG TGTACAGGAT TAGACTGGGT TTATATTTAA CTCTTGCTTC 180  
ATAGGTGTAC CATTTAAAGN GTGTTATNTA NTGCTAAGAA NTAAGTCTT TNATAAGCT 240  
TATTNNNAA TN 252

SEQ ID NO:6776

LENGTH:34

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08004

SEQUENCE DESCRIPTION:

GATCAAAGGG AATAAGAGA ACTCTTGGCT GAAA 34

2153480

SEQ ID NO:6777

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08005

SEQUENCE DESCRIPTION:

GATCATATNC TTTTCTNTT TTGTTCTTA CAATATCAAT CTAATTTAAT ATTCTCTTGT 60  
GAGAACACAA ACATNNGTAA ATTGCTCAGT AGTGGCAGCA GTAAGGN 107

SEQ ID NO:6778

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08006

SEQUENCE DESCRIPTION:

GATCAAGGTT TGTNTGCCCA TTACCTTTCC TCTGCCTGAA AGACGTGTCT CAAGAAAAAT 60  
AAATTCTATT TNAGATGCAG GTACTNATAN TAATTCTAAG ANTTGATATC AN 112

SEQ ID NO:6779

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08007

SEQUENCE DESCRIPTION:

GATCAGAGNA AACGNCTTTA ACNCCACCAT TAGCACCCAA AGCTAAGATT CTAATTTAAA 60  
CTATTCTCTG TTCTTTCATG GGGAAGCAGA TTTGGGTACC ACCCAAGTAT TGA CTCACCC 120  
ATCAACAACC GCTATGTAAA 140

SEQ ID NO:6780

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08008

SEQUENCE DESCRIPTION:

GATCAATCTC ATATTCATTC CCTGGGATGT TTAGTTACCA GTTTCCCAA AGTGTTCTGG 60  
TAGCATCTAC CATATTTNAT CAAATCTGTG ATTCCTTTGA TTATNATATG AACCATTATT 120  
TTATGTATCA TTAAGAAAAA ATACTGCCAA TTAAACTCTG TCATGNNAAC AAA 173

SEQ ID NO:6781

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08009

SEQUENCE DESCRIPTION:

01946

GATCCAAGTT GAGATTTTAA TTCTGTGACA TTTTACAAG GGTAAAATGT TACCACTACT 60  
 TTAATTATTG TTATACACAG CTTTATGATA TCAAAGACTC ATTGCTTAAT TCTAAGACTT 120  
 TTGAATTTTC ATTTTAA AAGATGTACA AACAGTNTT GNAATAAATT TNAATTCGNA 180  
 TATAAA 186

SEQ ID NO:6782

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08010

SEQUENCE DESCRIPTION:

GATCCATTTC TNATATGTCT TGAAGTACTG TGTCTAGTGG GCAAATGTCA TTGTTACCTC 60  
 TGTGTGTAA GAAAATAAAA ATATTNCTA AAGGTCTGTA AA 102

SEQ ID NO:6783

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08011

SEQUENCE DESCRIPTION:

GATCAAGTAG ATTTTTTAAA AATCAGAGTC AATTAATTTT AATTGAAAAT TTCTCTTATG 60  
 TTCCAAGTGT ACAAGAGTAA GATTATGCTC AATATTCCCA GAATAGTTTT CAATGTATTA 120  
 ATGAAGTGAT TAATTGGCTC CATATTTAGA CTAATAAAAC ATTAAGAATC TTCCATAATT 180  
 GTTCCACAA AACTAAA 198

SEQ ID NO:6784

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08012

SEQUENCE DESCRIPTION:

GATCAGAGTA AACNTGGAG CTAGATTGAT TACAGAGTGC AAGGACTAGG CACCCCGGGA 60  
 TTGGAGAGCA TCCTTGAAAG CAAGGGTTCT TCATTATTT ATAAAAATTT NATTCCTAC 120  
 TAGAAGCCCA GCTAAGAGTA TGAAGCAATT AAGACAACAN TCTTGCTCA AGAATCTCCT 180  
 AGACAATCCT GATTCAAGCA CCAGAAACAA AGGGNNAAGA AACCTCCAG TCTNGTGNG 240  
 NAAGTNGTAC ACATNTGTC AACAGNTAGG TTNTTTN 278

SEQ ID NO:6785

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08013

SEQUENCE DESCRIPTION:

GATCCCATGT NAGTACACA GTGCAGAGGC TCTTGATGGT GGAATAAGCA ATTCCTCCC 60  
 TCGTGCGCAT CTCAGAACCC ATCGGTAGGC AAAGGAAAAT ACGCTCAGGT GGTGTGGNN 120

NAGNCTGTNT CAGGCCTACG GAGTCAGCCA GTGGCTAGCG CAAGACCAGT CACTCCCTCT 180  
 GCNTTCAGGC TTCTTTCAAT TTCATTATCA TCAAGCAGGA ATTATGTCGT AAGTCACTGA 240  
 CCCTAACTGC AGACCATGAA GTAAATTATG TAACTAGGTT TTTNNCTTCT CCAGTGGTGA 300  
 CCACCNNCNC NCATNCCCCG GTNANAACCT GGGTTTTTN 339

SEQ ID NO:6786

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08014

SEQUENCE DESCRIPTION:

GATCGCCTAT TACTGACAGT CTCATTGTAG CTCTAAAAAG CCTAATGTAT CCACTGTGGA 60  
 ATAAACTCCA TAGACTCAAA 80

SEQ ID NO:6787

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08015

SEQUENCE DESCRIPTION:

GATCTTGAAG AGACCGCTGG CAGCACCAGT ATTCCCAAGA GGAAGAAGTC TACACCCAAG 60  
 GAGGAAACAG TTAATGACCC TGAGGAGGCA GGCCACAGAA GTGGCTCCAA GAAAAAGAGG 120  
 AAATTNTCCA AAGAGGAGCC GGTGAGCAGT GGGCCTNNAG AGGCGGCTNG CAAGAGCAGC 180  
 TCCAAGAAGG NAGGAAAAAG TTCCNTTAAG CATTNCCNGG GAGNTTTGAA TTCAAAATTG 240  
 GGCATTNTTN TTTGGGGGTT GGGNNATTCC CTTGGCCCN 279

SEQ ID NO:6788

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08016

SEQUENCE DESCRIPTION:

GATCCACTCA CCTCGGCCTC CCAAAGTGCT GGGATTACAG TGCCCGTCCG TGATGATGGG 60  
 AACATGNCCG ACGTGCCAG NCACCCCCAG GACCCTCAGG GCCCCAGNCT GGAGTGGCTG 120  
 AAGAAACTGT GAGCACCTCC ACTGACAGAG GCGGCCCTC CCACGGCTCC CAATAAAAAAT 180  
 GTGAAAACCA AA 192

SEQ ID NO:6789

LENGTH:303

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08017

SEQUENCE DESCRIPTION:

GATCCGTATC GNTTTAAGAA GCGGACGGAG CTGTTTATTG CCGNCGAGGG CATTACACG 60  
 GGCCAGTTTG TGTATTGCGG CAAGAAGGCC CAGCTCAACA TTGGCAATGT GCTCCCTGTG 120

2153480

GGCACCATGC CTGAGGGTAC AATCGTGTGC TGCCTNGAGG AGAAGCCTGG AGACCGTGGC 180  
AAGCTGGCCC GGGCATCANG GGACTATGCC ACCGTTATCT CCCACAACCC TTNGACCAAG 240  
AAGNCCCGTT TTGAANGTTG CCCTNCGGTT TCCAAAGAAN GTTTATCTCC TTAANGCCAA 300  
TCN 303

SEQ ID NO:6790

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08018

SEQUENCE DESCRIPTION:

GATCTAAAA TCAATGAGAA CATAATTTA ATTGGCAGTT CTTCAGAAAA ATGTGAATGG 60  
CTTATAACA TAAATGTAAT ACTCAGCTGC TGTCATCATC AGAAGAATGA AGTTGTTTTT 120  
AAGCTCTTCA NCTGTCAAGN GTAAGAAGCA ATGTTACTAA TACCGGCAAG NTATGAAAAG 180  
ACGCTCATAC ATTGTTGGAA ATNAANGTTG GTATNGCTTT TCAGCGGCCN ATNAACATAA 240  
TCCCNNTNTT TCTTCCCTAC NNACTCN 267

SEQ ID NO:6791

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08019

SEQUENCE DESCRIPTION:

GATCATCTGG CAAGACAGCC CAAGAATAAA GCCGTCACCA TGGAGACTAA GAAGNGNCAG 60  
AAAGNCACTG GGTCTTCATT GTNTCGTCCA GCTGTTCATG AGGCCTTATC TGAAGCCCAC 120  
GTGACCTCCG GNCTACTCAC TTACATGCGN GAATAAAAGC TCTATTTTGT TTAGGNCCN 180  
AAATAANTN 189

SEQ ID NO:6792

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08020

SEQUENCE DESCRIPTION:

GATCTGCTGG CAGAGGNCAA TCAAAAACGA CAACAAGCTT CTTCCAGGG TGAGGGGAAA 60  
CACTTAAGGA ATAAATATGG NGCTGGGGTT TAACACTAAA AACTAGAAAT AAACATCTCA 120  
AACAGTAAA 129

SEQ ID NO:6793

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08021

SEQUENCE DESCRIPTION:

GATCAGGACC CACCTCCAGT TCTNCTGAAA GTNTGACAGT GTCCAGCCGG TTCTGCAGCA 60

01949



CTAGGGGAGG GGGCAGATGG TGGTTGCATG GGCTTCCTGG GTCTCCACTC TCCGTCTGGC 120  
 CTAAAGGTGA TGTATTTGGT GTTTGGNCCT GCAGTCCCCA CTNTTAAGGC TTAAGGCGGA 180  
 TGTGGAACAN CACTTTCTTT CAGGAGTAGG TNGTNTACT TGTACCTCAT TTAGGGCTTA 240  
 GAAAGTTTNN CCNCANACTN NAAAAAN 267

SEQ ID NO:6794

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08022

SEQUENCE DESCRIPTION:

GATCTACAAA ACAGATAGNG NAAAGTACAA CAGAATAGCT CGGGAATGGN CTCAGAAGTA 60  
 TCGCATGTAA TTAAAGAAAT TATTGGATAA CCTCTACAAA TAAAGATAGG GGNACTCTGA 120  
 AA 122

SEQ ID NO:6795

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08023

SEQUENCE DESCRIPTION:

GATCCCACTT GTAGATGCTT GCACTCACAC AATAAAAACG TCTGNTATTT GCCAAA 56

SEQ ID NO:6796

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08024

SEQUENCE DESCRIPTION:

GATCCGTGGT TCCCTGCAGA CTGGCAGGAG CAGATTCCAA AGGCACAGGA AGAAGCTTGC 60  
 AGGTAGAATG TGTTCAATAC CTTCTGCGCA TTATACCACA AAAAAGCTGG GNATAAAAAT 120  
 GCTAACCAAA 130

SEQ ID NO:6797

LENGTH:234

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08025

SEQUENCE DESCRIPTION:

GATCTGCCCC ATGATTGGTT CCTTAGGANC AAGNAATTTA CAAGTAGNAA TTATTCCTTT 60  
 CAGAGTAACA TGCTGTATTA CTTCAATCCC TATTTTGTG TGTTCATTT TCTTTGGATT 120  
 CCCTATTAC ATTGAATCCT NTTTGCCTT CTGAAACAAT ATTCAGTCAC AAGNGNTTTT 180  
 GGTGATGTTG GTCTTTGTAA CAAATNAAAN TTACCTTATA TCCTTCTGGA CAAA 234

SEQ ID NO:6798

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08026

SEQUENCE DESCRIPTION:

GATCACAAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAACCTC ATCTCTATTG 60  
AAAATACAAA AATCAGCCAG GCACGGTGGC AGGCGCCTGT AGTCCACCTA CTCGGGAGGC 120  
TGAGGCAGGA GAACTGCTTG AACCCAGCGG CAGAGGTTC AGTGAGCCAA GATTGAGCCA 180  
CTGCACTCCA GCCTGGTGNT AGNGCGNGCT CTGTCTCTAA ATAATNANNT AAANTNCNTT 240  
AANNNN 246

SEQ ID NO:6799

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08027

SEQUENCE DESCRIPTION:

GATCAGTGTT AAAC TAGATT GTATTCATTA CTAGATAAAA TGTATAAAGC TCTCTGTACT 60  
AAGGNGAAAT GACTTTTATA ACATTTTGAG NAAATAATAA AGCATTTATC TAAA 114

SEQ ID NO:6800

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08028

SEQUENCE DESCRIPTION:

GATCTTTTGT GCCAAGATGC AGGGAAATNA AGAAAGCTCT TTCCAGCTGT TTTNATGGAT 60  
TCATGGAGTG GGCTCATGTT GGGACCAGCT GACTCTGGGN GGAAGACTGC CTCTCCATCG 120  
CTGTGAGAGA GCCTGAAAGG ACCAACAATG AGNTGTTCTT GGGACCCGCC ATGGGGATGA 180  
TTGCTTCTCT AGGCTNCTGG CTGTTGCTGC ATTCTAAGGN TTAACCTCCT GGTCTNATGG 240  
TAGTGANCTT GAGCTTTTNN ATTCNATAGN AGNN 274

SEQ ID NO:6801

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08029

SEQUENCE DESCRIPTION:

GATCTGTGNA GNAATGAAAT AAAATGGAGA AGAAGACAGA AA 42

SEQ ID NO:6802

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08030

## SEQUENCE DESCRIPTION:

GATCCAGTTT CAAGAATGGG CAGGTAAACG CAGNANGAGG AAAGGAATGT GGAATGAGAA 60  
 CTTGGTGGTT CACCGCTGTA CTATTGTGT AAATGTTTAC GTATGNATA AGCTACATGT 120  
 ATGTAAATNT TGCAATACCC CTAACAGTCG AGTAGTAGTC TCCCTTACAG GAATTTTGA 180  
 CGGGGTTCTT CATCATCAAT ACCAAATAAN TATATGTAGG NNTGGAAA 228

SEQ ID NO:6803

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08031

## SEQUENCE DESCRIPTION:

GATCATATTC TTGAAATTTT TATAAATATG TATGGAAATT CTTAGGCTTT TTTTACCAGC 60  
 TTTGTTTACA GACCCAAATG TAAATATTAA AAATAAATAT TTGCAATTTT CTACAGAATT 120  
 GAATACCTGT TAAAGGAAAA TTACAGAATA ANCTTGTGAC TGGTCTTGTT TTACATTAAA 180

SEQ ID NO:6804

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08032

## SEQUENCE DESCRIPTION:

GATCATTCG AGGTCATTG AGGACGCACA CTGGAGAGAA GCCTTATNAG TGTAACAAT 60  
 NTGGA AAAAC CTTCACTTGG TNCTCAACGT TTAGAGAACA TGTNAGAATT CACACGCAAG 120  
 AGCAGCTCCA TAAATGTGAA CACTGTGGGA AGGCCTTTAC CTCTTCCAGA GCATTCCAAG 180  
 GTCATTTGAG GATGCACACT GGAGAGAAGC CTTATGAGTG TACACAATGT GGANAAACCT 240  
 TCACTNGGGG CCTCAANCCT TACNTAATAA TGTGGTN 277

SEQ ID NO:6805

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08033

## SEQUENCE DESCRIPTION:

GATCTACCTC AGTATTCAAG TTCAGTGGGG ACACCAGTGG CTTCAAACTT CCTGGTTTCA 60  
 TGATATCTTG AGACGCCTTA CAAATGATGG AGGATTCCAA AGAGTTTTTG TTTATTTGGG 120  
 TTAATATTTG TTGGTATTTA TGGCATTGA GATTGAACT AAGNAATGTT TTAATTTATT 180  
 ACCTTTACAA CATTATTTA CATTACATAC ATACATTTAC AACATTTATT AATTTATNTT 240  
 AAAATAGCAT GNATAAGCCA ATTATNGGTT AGN 273

SEQ ID NO:6806

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08034

## SEQUENCE DESCRIPTION:

GATCCACTCT TCTCGNCCTC CCAAAGTGTT GGGATTATAG GCGTGAGCAC ANGCGCCCGG 60  
 CCTGNTNTGG ATATTTCTTA TAAATGGAAT CATACAGTGC TTNTTTCAGT TAGCATAATG 120  
 TTTCCAGGT TCATCCAGGT CATAACACAT AATCAGGCTT CATTNTTTT TATTACCANC 180  
 TAATATTCTA TGAATATAAA NNNACCN 207

SEQ ID NO:6807

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08036

## SEQUENCE DESCRIPTION:

GATCCTGAAG AGATTGAAAA AGAAGAGCAG GCTGCTACTC AGCCTGAGGT TGCAGACTGG 60  
 TCTGAAGGTG TACAGGTGCC CTCTGTGCCT ATTCAGCAAT TCCCTACTGA AGACTGGAGC 120  
 GCTCAGCCTG CCACGGAAGA CTGGTCTGCA GCTCCCACTG CTCAGGCCAC TGAATGGGTA 180  
 GGAGCAACCA CTGACTGGTC TTAAGCTGTT CTGTCATAGG CTCTTAAGCA GCATGGNAAA 240  
 ATGGTTGCTG GCAAATAAAC ATCAGTTTCT AAA 273

SEQ ID NO:6808

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08037

## SEQUENCE DESCRIPTION:

GATCTCCAAC ATCTTTGTGT TGAAGGGCCT ACAGAGTAAA CTGTGGGACT CAATAAACAT 60  
 TCGTTACTTG AAA 73

SEQ ID NO:6809

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08038

## SEQUENCE DESCRIPTION:

GATCACAGCA GACAGGGTCG CTGCCCTGAT GCGGCTTACA TTCCAGTGGG TCTAATGACC 60  
 ATATCTTAGG ACACAGATGT GCCCAGGGAG GTGGTGTAC TGCACAGGAA GTATGAGGAC 120  
 TTTAGTGTCC TGAGTTCAAA TCCTGATTCA GGAATCACA AAGCTATGTG ACCTTACACC 180  
 AGTCACTTAA CTTGTTAGCC ATCCATTATC GCATCTGCAA AATGGGGATT AAGAATAGAA 240  
 TCTTGGGGTT AGTGTGGNGA TTAGATTAAG TGTATGTAAG GCACN 285

SEQ ID NO:6810

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08039

## SEQUENCE DESCRIPTION:

GATCAGTTTC TGGCACATAA ATGCCTCAAT AAAGATTAA TTACTTTGTA TAGTGCTTTA 60  
AA 62

SEQ ID NO:6811

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08040

SEQUENCE DESCRIPTION:

GATCATTGGC TATGACAGAG AACCCGTCTC TCAAGCAGCA GCTCTTCTCC TATGCCATTG 60  
TTGGCTTTGC CTGTCTGAGG CCATGGGGCT TTTNTGTTTG ATGGTCGCCT TCCTAATCCT 120  
NTTCGCCATG TGAGGNTCCA TGGGGGGTCA CCGGANCTGT TGATACTGCA ACTACACACC 180  
ATTNTGGTG CTGGGGTGTG TTAAGATTTA ACCATTNANC ACAACGTTTC TCTNAAA 237

SEQ ID NO:6812

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08041

SEQUENCE DESCRIPTION:

GATCAGCAAA TTTAAGAGAA GACCTAGCTA TGTGGGCTGG TTGCTTTCTA TTATCATGGT 60  
ATTTGACCAT TTTAGTTTTA ATTCCATGTC AGATAAGTGT AAATAGAAGA GTTTAAAAGC 120  
ATGANACATT TCAGANGGTA TCAGTTATAT GATATTCTTT AANCANNTAT GACACATGTA 180  
AATCCTCNTG ANTGACAATN CATCTNTNTG TGAAA 215

SEQ ID NO:6813

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08042

SEQUENCE DESCRIPTION:

GATCTAAAAG CCATATCCTG TCTTTGGTGG TGGCCTGGTA GGAATGGCTT GTNCTAGTTC 60  
TTCAAAGGTA AGATTGACCA AAGCAAGTTC TCATTGGTGG TCTGTGTTTA CATCTTCCGT 120  
GTCAAGNTAT TTAAAGCAT GNAAATAAAG CCATTCTTGC CCTTTTTCGT GTGTTTGCAA 180  
A 181

SEQ ID NO:6814

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08043

SEQUENCE DESCRIPTION:

GATCTCAGGC TTCTGCAGTT CTCATGACTC CTACTTTTCA TCCTAGTCTA GCATTCTGCA 60  
ACATTTATAT AGACTGTTGA AAGGAGAATT TGAAAAATGC ATAATAACTA CTTCCATCCC 120  
TGCTTATTTT TAATTTGGGA AAATAAATAC ATTCGAAGGA AA 162

SEQ ID NO:6815

LENGTH:431

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08044

SEQUENCE DESCRIPTION:

GATCTCAGCG GGGAGCCACG TCTCTTGCAC TGTGGTCTCT GCATGGACCC CAGGGCTGTG 60  
 GGGACTTGGG GGACAGTAAT CAAGTAATCC CCTTTCCAG AATGCATTAA CCCACTCCCC 120  
 TGACCTCAGC CTGGGGCAGG TCCCAAGTG TGCAAGCTCA GTATTCATGA TGGTGGGGGA 180  
 TGGAGTGTCT TCCGAGGTTC TTGGGGGAAA AAAAAATTN TAGCATATTT AAGGGAGGCA 240  
 ATGAACCCTN TCCCCANCT NTTNCCNGCC CAAATNTGTC TCCTAGNATC TTATGTGCTG 300  
 GGAATAATAG GCCTTNACTG CCNTCNGNT TTATAGGCCN ANGGGTCCCG GTTCCCGGG 360  
 AACTGGAACC CTTCTGAGG GGAATCCCG GGGCTCAAAT TACCCCNAA AGGAAAGTGG 420  
 CCAAGGCGGT N 431

SEQ ID NO:6816

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08045

SEQUENCE DESCRIPTION:

GATCTGTTTC TAAAGCGTTA CGCATCTTTN CTGAAGTATG CTGGAGAGCC TGTCCCTTTC 60  
 ATTGAACCCC CTGAAAGCTT TGAATTTNAT GCACAGCAGC TAAGAAAATT GAGGGAAAAC 120  
 TCTTCTTGAA ATAACCAGGC GATACTTTGT TTTGTATATA TTTGTGATC TGTGTCTACA 180  
 TGTTATTTTG AAGTATATCT GAGGGAANNG GGAATGGAAA TTTTCTTTAA A 231

SEQ ID NO:6817

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08046

SEQUENCE DESCRIPTION:

GATCCTTCCA GCTGCTCTTC CATAACTTCA TCTCTCCCCT CAACACCTGC AACCCTAAG 60  
 CCATTTTCCC CCTACCCGTC TGTAATTTTG TAATTTTGAG AATGCCAGGT AAATGGAATC 120  
 AGAGCGGATA ATCTTTGGAG CATGAAA 147

SEQ ID NO:6818

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08047

SEQUENCE DESCRIPTION:

GATCATTTAT ATTAAAGTTT AAAAGGAGGN TGAGACTGAG TTTTGTAGA GTTATAATNA 60  
 CATTCAAAAT ATACTTTTTT GCATTGNNA AATGTTAANT N 101

SEQ ID NO:6819

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08048

SEQUENCE DESCRIPTION:

GATCAAGCCA AACAGTAAAA ACTACCAAGA GAACACGAGG AAGGCAGAAA CGNTGTTTAG 60  
CAACAGTATT CTGCATGGTT CACTGCTTAA GAAAATGCCT TCTGGAATAT TTGTAAACTG 120  
AAATTCTGTA TGTGTAAGNG NTGTTTAAAT ATGTTTGGGT CCTAAACAGC TTTTAAAAAT 180  
TATACTTGGG CNTAANTTCA GCATCTTTTC AAATCANCTC TNTGCNCCGC CGCTGN 236

SEQ ID NO:6820

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08049

SEQUENCE DESCRIPTION:

GATCATTTTG TTTGTTGCTC TCTCTAGTGT CTTCTTCTCT CGTCAGTCTT AGCCTGTGCC 60  
CTCCCCTTAC CCAGGCTTAG GNTTAATTAC CTGAAAGATT CCAGGAAACT GTAGCTTCCT 120  
AGCTAGTGTC ATTTAACCTT AAATGCAATC AGGAAAGTAG CAAACAGANG TCAATAAATA 180  
TTTTTAAATG TNAAT 195

SEQ ID NO:6821

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08050

SEQUENCE DESCRIPTION:

GATCATAAAT ATTTTGTAAT GAAATACTTC CNCTTTTCCA GGGCTTTGTA TGCATTGTA 60  
TAATTACATT GATGGCAATG TAGNGTTTGA ATTCAGTCT GTAAATACTT TTNTGGNAAA 120  
TAGNAATTTT NATTGCTTTA AAGTTTTGGA TATGGGTGGN 160

SEQ ID NO:6822

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08051

SEQUENCE DESCRIPTION:

GATCTATAGG AAGATTGAAC CTGAATATTG CCATTATGCT TGACATGGTT TGCAAAAAAT 60  
GGTACTCCAC ATACTTCAGT GAGGGTAAGT ATTTTCCTGT TGTCAAGAAT AGCATTGTAA 120  
AAGCATTTTG TAATAATAAA GNATAGCTTT AATGAAA 157

SEQ ID NO:6823

LENGTH:150

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08052

SEQUENCE DESCRIPTION:

GATCCAGNTT GTTGCATCAA TAGTTCTGTT TTTAGTACTG AGTGGGATGT CAGTATAGAT 60  
GTACCATAGT AAACACCTGT GGAAGGACGT CAGGAATGTT TCCTGTTATT AGGTATCTAA 120  
ATAAAGTTGC TGTAACATT TGTGTACAAA 150

SEQ ID NO:6824

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08053

SEQUENCE DESCRIPTION:

GATCTGTCCA CTTTGCTCTC ACGGACGTGG CATTGCCAG GAAGGAGAAC CCAGCAGGAA 60  
CGGAGGTCTC TGCCTTCACC TACAGTGAAG GGGCTGGTAT GTGAAATACT TTCACTGAGC 120  
TTAGTGAAAA ATTCATTTTA CACCCTAGTT AGCTCCAGA AAGGTTNAAC TTTCAAGANG 180  
GTCAAAATAT GNAGCCTGTT ATATGTGTAA TAAAAAAGN NNTAGNATAT CCCAAATGGN 240  
ACATTTCAGG NATTAANTAA TTGNAATN 268

SEQ ID NO:6825

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08054

SEQUENCE DESCRIPTION:

GATCTGAGAA GTGAGTGTAA GGAGTTTAAA TCAACCTCTG TTCTGTGCTA GTTAAGGTAA 60  
TAAAGTTGCT GCAGTCCAGG GGGTAGGTAC CTGTGGACGG CTCTGCGAAT AGGNCAGTTG 120  
CATTTCTTGG GAATCAAGTG CATCCCTAGG CTGGCAGTGC AGCAGAAAATA CTGAATAAAA 180  
TGTGACAAAT CTCCAAA 197

SEQ ID NO:6826

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08055

SEQUENCE DESCRIPTION:

GATCAAGTAA AAATGAAGGA CAACGTGAAG TTAAAGTTC GATGCAGCAG ATACCTTTAC 60  
ACCCTGGTCA TCACTGACAA AGAGAAGGCA GAGAACTGA AGCAGTCCCT GCCCCCGGT 120  
TTGGCAGTGA AGGAACTGAA ATNAACCAGA CACACTGATT GGAAGTGTAT TATATTAAAN 180  
TNCTAAAAAT CCTAAA 196

SEQ ID NO:6827

LENGTH:213

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS08056

SEQUENCE DESCRIPTION:

GATCATCAGT ACTGTTGTCT CATGTAATGC TAAAACTGAA ATGGTCCGTG TTTGCATTGT 60  
 TAAAAATNAT GTGTGAAATA GAATGAGTGC TATGGTGTTG AAAACTGCAG TGTCCGTTAT 120  
 GAGTGCCAAA AATCTGTCTT GAAGGCAGCT ACACTTTGAA GTGGTCTTTG AATACTTTTA 180  
 ATAAATTTAT TTTGATAAAT AATATTGAAC AAA 213

SEQ ID NO:6828

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08057

SEQUENCE DESCRIPTION:

GATCGTCCTG CAGGTATTTT GCAAGCCCCT ACTGTCCGCC GACATCAGCG TGAATCTCAC 60  
 ATGGTGCACT TGGCTCCCTG GGGGAGTNTT NGCNTCTCCT GTTGTCTTTT CCCAAAACCA 120  
 NTAAAAACCA TGN 133

SEQ ID NO:6829

LENGTH:269

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08058

SEQUENCE DESCRIPTION:

GATCTGCTAC ATTTTAAAAG TGGGCATGAA AATCTTCTGT TATGTATGTA CTGTCATTAA 60  
 TTCTGTTATT TTTNCCCACT AGTACTATCA ACTACAGTAA AGACCTTCCT CTGGCCCAAG 120  
 GAATCAAGTT TCAGTAAAGG TGTTTTAGAT GANCATCCCT TAATTTGAGG TGTTCAGCA 180  
 GCTGTTTTTG GNGANGACAA AGNAAATTAA NGTTTTCCCT GAATAANTGC ATTATTNTGA 240  
 CTGTGACAGT GNCTAATCCC CCTATGGTN 269

SEQ ID NO:6830

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08059

SEQUENCE DESCRIPTION:

GATCTATCCA ATAAAGGAGA GAAACAACCG CACACGCCTG GCTCTCATCA TATGCAATAC 60  
 AGAGTTTGAC CATCTGCCTC CGAGGAATGG AGCTGACTTT NACATCACAG GGATGAAGGA 120  
 GCTACTTGAG GGTCTGGNCT ATAGTGTAGA TGTAGAAGAG NATCTGACAG CCAGGGATAT 180  
 GGNCTCAGCG CTGAGGNCAT TTGNTACCAG ACCNGNGCAC AAGTCCTCTG NCAGCACATT 240  
 CTTTGGTACT CATGTNTCNT GGCATCCTGG NGGGGTNTCT TGCGGAACTT GTTCTGN 297

SEQ ID NO:6831

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08060

SEQUENCE DESCRIPTION:

GATCATGGTG GTTTGGCAGC AGGGAATTTG TCTTGTGGA GCCTGCTCTG TGCTCCCCAC 60  
TCCATTTCTC TGTCCTCTG CCTGGGCTAT GGGAAAGTGGG GATGCAGATG GCCAAGCTCC 120  
CACCTGGGT ATTCAAAAAC GGCAGACACA ACATGTNGCT CCACGCGGCT CAAA 174

SEQ ID NO:6832

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08061

SEQUENCE DESCRIPTION:

GATCAATTTT GGAGACCTTG GCCGCCCAGG ACGTGGCGGC AGGGGAGGAC GAGGTGGACG 60  
TGGGCGTGGT GGGCGCCCAA ACCGTGGCAG CAGGACCGAC AAGTCAAGTG CTTCTGCTCC 120  
TNATGTGGAT GACCAGAGG CATTCCCAGC TCTGGCTTAA CTGGATGCCA TAAGACAACC 180  
CTGTTTCCTT TGTGAACCTT TCTGTTCAAA GCTTTTGCAT GCTTAAGGAT TCCAAACGNC 240  
TACTGTAATT AAA 253

SEQ ID NO:6833

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08062

SEQUENCE DESCRIPTION:

GATCATGAAC CAAAGGAATT TATGTTTTGT AACTTGGGTA CTTTATTTTG CATTTTGTTA 60  
TACTATTAAA TANTTTTNTC CTGAAA 86

SEQ ID NO:6834

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08063

SEQUENCE DESCRIPTION:

GATCCAAGTT TCACTTTTGT TGATATAATG AGCCAGTTTT CTCAGTAATG TCTACTAAAA 60  
AAAAAGCCAT TAACCNGGNT CTAATATTG CATGATTCTA ATAAANGTAT GTCAACTTCT 120  
TAAA 124

SEQ ID NO:6835

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08064

SEQUENCE DESCRIPTION:

GATCCCCTCA GAAGGCAGGA GTGCTGCCCT CTCCCATGGT GCCCGTGCCT CTGTGCTGTG 60

TATGTGAACC ACCCACGNGA GGGNATAAAC CTGGCACNNG GACCAAA

107

SEQ ID NO:6836

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08065

SEQUENCE DESCRIPTION:

GATCCTCCTG TCTTGGTTTC CCAAAGTGCT GGGATTGCAG GTGTGAGCTA CTGCACCCGG 60  
 CCAATAAAAA AAATCTCGTT CTGTGAAAGA AATGTTAAT AAAAGTTGTA TTGTCAAATT 120  
 TTAAA 125

SEQ ID NO:6837

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08066

SEQUENCE DESCRIPTION:

GATCACTAAG ATTAGCTATA TCTATACAGT CATTAGTTTG ACAAGAAATA GNATCCTGTC 60  
 AGATGCCAAA GAGTGGGATT TTNATGTTTA ATGATTAAAC ACCATTATTT ATTGACAATT 120  
 TACCCTGTGG AACTGTATTA TTTCTAACTA TGAAATAAAG GGGTGATGTA AACACAAA 178

SEQ ID NO:6838

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08067

SEQUENCE DESCRIPTION:

GATCCCCGGC CAAGCCAGT CACGNGAATT TAAGGCTCTT CTCTCCGGCT CCAGCCTGTG 60  
 CCTGTAATTG TCCAGGANTG GCCTAGGCCG ACACCTTCTG CTGCCCCGGA GTCCCTCCC 120  
 TGGGTGGGAT GCTCACTACA GCTCTGATGT ATATAGCACA CAGCCCAANT CCGACCCTCC 180  
 GGTCTGTCGC CAATAAAGNG GGGTGTGTTT CANTCCGGGA AA 222

SEQ ID NO:6839

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08068

SEQUENCE DESCRIPTION:

GATCCCAACA GGCCCTGGCA GCGTCTGGAC ATGTGTAAAC AGCAGCAGTC ACGTTCCTCG 60  
 GCTGNCAAAA CCAACACNNN AGCAGGTTTT CCATTTTCTG TACTTTNATA TTTCTGTTCA 120  
 ACCTGTTGGT TTCTACAATG ATTTTAAACA TTGGNAAGNC AGCCTTGNGT ATATTTTAA 180  
 AAATTATATT NAAAATGN 198

SEQ ID NO:6840

2153480

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08069

SEQUENCE DESCRIPTION:

```
GATCATGAAA CTTAGTAGAG GGGATTGTGT GTATTTNATA CAAATTTAAT ACAATGTCTT 60
ACATTGATAA AATTCTTAAA GAGCAAAACT GCATTTAATT TCTGCATCCA CATTCCAATC 120
ATATTAGANC TAAGNTATTT ATCTATGAAG ATATAANTGG TGCAGAGAGA CTTTCATCTG 180
TGGATTGCGT TGTTTCTTAG GGTTCCTAGC ACTGNTGCCT GCACAAGCAT GTGNATATGT 240
GANATNNNAT GGATTCTTCT ATAGCTAAAT GNGTTCCTC TNGN 284
```

SEQ ID NO:6841

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08070

SEQUENCE DESCRIPTION:

```
GATCCACCTG CTTGGCCTC CCAAAGTGCT GGGATTACAG CTGTAAGTCA CTGATNCCGG 60
NTGCATGTCA AGCACATTGG NAAGTCTTA CAACAATTCT GNTGGAGGNT TTTN 114
```

SEQ ID NO:6842

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08071

SEQUENCE DESCRIPTION:

```
GATCTGTCTC TCAAAGGAAG AAACAAAAAC CCAAAATTTT GACTGCAAAA GATTGACTAA 60
TTCTAGGTGC AAATAACTGG AAATTTAGGA TTGTTATTGT ACTACACAGG TCACAANGTT 120
CCAAACCTAT TTCCCTTGTA ATTTTtagTG CATGATTTT CAGAATGCAG TTTCTATCTT 180
TTTAGGTGCA ATATTACGAA CTGCTTAGGT CAGANCANTT TNGTNTCTCC AGTTTTTCT 240
CCCTANGTTA CAN 253
```

SEQ ID NO:6843

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08073

SEQUENCE DESCRIPTION:

```
GATCTTATAA CCTCATTGTT TCCTAATCAT TTTATTTTAT CTCCTGCTAG TACTGTGCCG 60
CTTCCCCCTC CCCCCACACA AAATAAAAAC AGTATCTGCC AAA 103
```

SEQ ID NO:6844

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

01961

CLONE:HUMGS08074

SEQUENCE DESCRIPTION:

GATCCGTGCC CCACCTCTCC CCAGTTAAGT GCCTTCACAC AGCACTGGTT TAATGTTTAT 60  
AAACAAAATA GAGAACTTT CCTTATAAAT AAAAGTAGTT TGCACAGAAA 110

SEQ ID NO:6845

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08075

SEQUENCE DESCRIPTION:

GATCAGGGCT GAGGGTAAGG AAAAGAAGAG ACTAGGAAAG CTGGGCCCAA AACTGGAGAC 60  
TGTGTGCTT TCCTGGAGAT GCAGAACTNG GCCCGTGGAG CAGCAGTGTC AGCATCAGGG 120  
CGGAAGCTTT AAAAGCAGCA GCGGCNTGTG CCCAGGGCA CCCAGAATGA TTTCCCTATG 180  
GGCACCAGGC CAGNGAAAA ATTGGGCAGC NTCTTTAAAG GGNNGAAAAT TGTTTTGAGC 240  
CCCAAA 246

SEQ ID NO:6846

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08076

SEQUENCE DESCRIPTION:

GATCTACCTG CATATAACAG TCTCTAAGTT TTTTTTCAA TCTTGCANTT TGATAATTTT 60  
GATTTTGGCC ANATTAGNNT AATTGGGAC TATCCTGAAA CAGNN 105

SEQ ID NO:6847

LENGTH:26

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08077

SEQUENCE DESCRIPTION:

GATCAAAAGA GCTGTCTGAC TGCAAA 26

SEQ ID NO:6848

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08078

SEQUENCE DESCRIPTION:

GATCCCTTGA GCCCAGGAGT TCCAGACCAG CCTGGGAAAT ATAGGGAAAC CCTGTCTTTA 60  
CAAAAAAAAA TTTTAAAAAT TAAA 84

SEQ ID NO:6849

LENGTH:217

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08079

SEQUENCE DESCRIPTION:

GATCAGATTC CTGACTAACC CCTCTCTTAG AGCTACAGCG AGCTGCATTA CCAGCTTAAA 60  
 ACACTTCTTA GGGATTAAAT ATAGNTGTNA TTTTCAAAA TCGTTTTTAA TTAAACTGT 120  
 GTTTTAGTGT AAAATTGTGA ACCTTGTAAG ATGGATANTG TGTATANGAN TGTAGGCCTT 180  
 AACTATTCA CATGAGTCAA ANCANGGCNG CTTTAAAN 217

SEQ ID NO:6850

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08080

SEQUENCE DESCRIPTION:

GATCTCACCC AGTGTGCAAT TTGTGAAAAT GAACCAAATG TCATTACTTT TGTCTTAAAG 60  
 CAAAGTCTAT TTCAAGNATA TGNACAGCAN AAA 93

SEQ ID NO:6851

LENGTH:73

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08081

SEQUENCE DESCRIPTION:

GATCAATGAA CCATCTCTTC TGGGCAGTTT TGTTGAAAAT AAAGGTTTCT CTTTGATTTC 60  
 AAGAATGACC AAA 73

SEQ ID NO:6852

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08082

SEQUENCE DESCRIPTION:

GATCACCGGT TTCCGACTGA GTCTGGGGAT TTNGGCCTTG TTGAACCCCTC CTACGGTGCC 60  
 CNGGGAATTT GAAANACGCT TTCTGCATNG ATATNTGGGC CCTN 104

SEQ ID NO:6853

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08083

SEQUENCE DESCRIPTION:

GATCAACATC ATTAAAGATT ATGTAAAAAG TTAAGGCT TATGAGCCTA AGTTTGTTC 60  
 TATATTACCA TATTTACTGA ATNTTCTGGN AAAGNAACTT TANTAAGTT TAATCTNAGG 120  
 AAA 123

SEQ ID NO:6854

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08084

SEQUENCE DESCRIPTION:

GATCACTTGA GCCTAGGAGG CAGNGGTTCA AGTGAGCTGA GATGGCACTC CTGCGCTCCA 60  
GCCTNGGTGA CAGCGTGAGA NNCTGTCTCA N 91

SEQ ID NO:6855

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08085

SEQUENCE DESCRIPTION:

GATCTGTCAG NACCATTGGA AAACCTGCTC AAGAGCAGTT GCTTATATAT AGTAGGATTT 60  
TACTTTTCC TGCTTATGTA NTACTATATG CTTAAAAAAC CTGGAGGAAT ACTTACCAAA 120  
GAGGAGTAAC CATCTCTGAG GGTGGGATTG TGGGGGANTT TTTGTTTTTT TCTGTTTTCT 180  
ATANTGTGCA NCTNTTNTAG TATGTNTNTT NCTAATTGN 219

SEQ ID NO:6856

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08086

SEQUENCE DESCRIPTION:

GATCTTNCTC CATTACAGT ACATTCTTAG GATGTATGTA GTAAATAAAG CTTTCTTTAA 60  
AGCAAA 66

SEQ ID NO:6857

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08087

SEQUENCE DESCRIPTION:

GATCACCCCG TAGGAAATAA AGCAGGCATC TCTGGACCTC AAA 43

SEQ ID NO:6858

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08088

SEQUENCE DESCRIPTION:

GATCAAAAGA CAGNTAAATN TTTCTTCTAG AACACAGTTA CCCCCTTGCT TCATCTATTG 60

CTAGAACTAT CTCATTGCTA TCTGTNATAG ACTAGTGATA CAAACTTTAA GAAAACAGGN 120  
 TAAAAAGATA CCCATTGCCT GTGTCTACTG ATAAAATTAT CCCAAAGGTA GGTGGGTGTG 180  
 NTAGTTTCCG NGTAAGACCT TAAGGCCACA GCCAANCTCT TAAGTACTGT GTGNCCACTC 240  
 TTGTTGTTAT CACATAGTCA TNCTTGTTG TACTATGTGA TGGTTAACCT GTAGCTNATN 300  
 ANTNTACTTA TTATTCTNTT CCTCCTTTAC CTCANCNN 338

SEQ ID NO:6859

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08089

SEQUENCE DESCRIPTION:

GATCGTTTGC AAGTAACTGA ATCCATTGCG NCATTGTGAA GGCTTAAATG AGTTTAGATG 60  
 GGAAATAGCG TTGTTATCGG NTTGGGTTTA AATTATTTGA TGAGTTCCAC TTGTATCATG 120  
 GCCTACCCGA GGAGANGNGG NGTTTGTTAA CTGGGCCTAT GTAGTAGCCT CATTNCCAT 180  
 CGTTTGTATT ACTGACCACA TATGCTTGTC ACTGGGCANG AAGCCTNTTT CNGCTGCCTN 240  
 CACGCANTTT N 251

SEQ ID NO:6860

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08090

SEQUENCE DESCRIPTION:

GATCTTAATA TAAATNCACT TTCATTTTTN ATAGCTGTCC CATCTGGTCA TTTGGTTGGC 60  
 ACTAGACTGG TGGCAGGGGC TTCTAGCTGA CTCGCACAGG GNTTCTCACA ATAGCCGATA 120  
 TCAGAATTTG TGTGAAGGA ACTTGTCTCT TCATCTAATA TGNTAGCGGA NAAAGGAGAG 180  
 GAAACTACTG CCTTTAGAAA NTATAAGTAA AGTGATTAAA GTGCTCACGT TACCTTGNCA 240  
 CATAGTTTTT CAGTCTATGG GTTTAGTTAC TTTAGNNGGG NAGCNTGTNA CTTATATTAN 300  
 TAGTANTTTN GTAAAGTTGG NTGGATAAGC TATCCATGTT GCCAGGTTCA TGGATTNGN 359

SEQ ID NO:6861

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08091

SEQUENCE DESCRIPTION:

GATCCCCAAA CCACAAATAC ATATGTGTGC CTAAGTTTGT GCATGCATAC ATTAAACAGG 60  
 ACATAAAGTG TAAA 75

SEQ ID NO:6862

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08092



## SEQUENCE DESCRIPTION:

GATCATCATG GCAAAACCAG CTGGTGGGCC CAAGCCTCCA AGTGGGAAGA AAGACTGGGA 60  
 TGATGACCAA AATGATTGAA ATTGGCTTAA TTTTACTGT AGGTGAAGGC TGTATTGTA 120  
 GTAGTACTCA AGAATCACCT GATGTNTTCT TATTCTCCTT AAATTAAGAG TTATTTGTN 180  
 TTTGTNTTCT TGGCTGGATG TTATAATAAN CATATTGTNA CTGTCAAA 228

SEQ ID NO:6863

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08093

## SEQUENCE DESCRIPTION:

GATCATGCCT ACTTTCTTCT NTGTATCTCC CTCCTTCCA GCCCACC CGG GCAGCAGACT 60  
 CTNATGGAAG NAAGGTGCCG TAGTGGGNTT TTAGAACTA ACGGGACTGG TTTTCAAAGC 120  
 AGTTATCTTG GAAACTGTT TATTCCAGCG ATGTGACTTT TTTNAGAATA TTTCTTGAA 180  
 TCATATTCAG AGTCTGGGGC TGTGTGTGA GCAGCCTTAA GGNTGCTAGA CACTCATTTA 240  
 GTGCCAGGG AGTCCAGCGA ATGACGTCTG TGGCCAAGCG AGGTCTCAGG TGCAAAGCN 299

SEQ ID NO:6864

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08094

## SEQUENCE DESCRIPTION:

GATCCTCTGA ACCTGCAGAG GCCCNCCTCC CGAGCCTGGC CTGGCTCTGG CCCGGTCCTA 60  
 AGCTGGACTC CTCCTACACA ATTNATTNA CGTTTTATTT TGGTTTTCCC CACCCCTCA 120  
 NGNNTGTCGG GGAGCCCTG CCCTTNACCT AGCTCCCTTG GCCAGGAGCG AGCGAAGTGT 180  
 NGGCCTTGGT GAAGCTGCCC TCCTCTTCTC CCCTCACACT ACAGCCCTGG TGGGGGAGAA 240  
 GGGGGTGGGT GCTGCTTGTG GTTTAGTCTT TTTTTTTTTT TTTTNTTN TNANAAA 298

SEQ ID NO:6865

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08095

## SEQUENCE DESCRIPTION:

GATCTGCGGG GCAANTTCAA GCNNNCCCCA CTGCGGAGGG TGCGCATGTC GNCCGATGCC 60  
 ATGCTCAAGG CCCTGCTGGG CTCGAAGCAC AAGGTGTGCA TGGACCTGAG GGCCAACCTG 120  
 AAGCAGGTCA AGAAGGAGGA CACAGAGAAG GAGCGGGACC TGCGAGACGT GGGTGACTGG 180  
 AGGAAGAACA TCGAGGAGAA GTCTGGCATG GAGGGCCGGA AGAAGATGTT TGANTCCGAG 240  
 TCCTAGGCCA CTCGCTGCCC CTACGNCTGC CCCGGTGCCC GGTTCACAGC AGAANN 296

SEQ ID NO:6866

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08096

SEQUENCE DESCRIPTION:

GATCCTGTTC TGTCAGCTGC ACCCTGAGCA AAAACTTGCC ACACCAGNGC TCCTAGAAAC 60  
 AGCCCAGGCT TTGGAGCGGA CCCTGAGGAA GCCTGGGAGG GGTGGGATG ACACGTATGT 120  
 CTTGTCAGAT ATGCTCAAGA CGGTGAAAAT TGTGTGACTG CTTAGGCCAA GCAGCCCTCC 180  
 TGCCTAGAAT GACCTTGGAC TCCCAGCCTG CCAGNGAATG NAGAAATACA ACGCACAGTA 240  
 CTTTTGAAGC TTCGTATTTT TCTTGGTTTC AACTCAGCT ACATGTGACC TCCAGCTTGG 300  
 TCGGGTTAGN 310

SEQ ID NO:6867

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08097

SEQUENCE DESCRIPTION:

GATCAGTTCA AGAAGGTAAT CCAAGGGCCT GATGACTCTT TTGGTAACCA GACACCAATC 60  
 AAATAAGGGG AGGAGATGAA AATGGAATNA TTTCTTCCAT GCCACCTGTG CCTTTAGGAA 120  
 CTGCCCAGAA GAAATCCAA GGCTTTAGCC AGGAGCGGAA ACTGACTACC ATGTAATTAT 180  
 CAAAGTAAAA TTGGGCATTC CATGCTATTT TTAATACCTG GNTTGCTGAT TTNCAAGAC 240  
 AAAATACTTG GGGTTTCCA ATAAAGATTG TTGTAATATT GNAAA 285

SEQ ID NO:6868

LENGTH:201

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08098

SEQUENCE DESCRIPTION:

GATCAGACTC TGTATCAAAA GTACCTTTGC CCTTAGGAAG AGTGAGTATT GGAGTCATCT 60  
 TATCTATTAC TCCAAACCTC CCTTTTNATT TCTTGAGCCT GGCTTGGACC TTGGCATTC 120  
 GTTTGANTTC CTTCTAACTG GAACATTTGT GTTGTATCTG TAACACTGGC ACTGAAATAA 180  
 AGACCACACG GTTAAAGNAA A 201

SEQ ID NO:6869

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08099

SEQUENCE DESCRIPTION:

GATCATGTGC TGCCTTTTAC TGCTGAATTA AAACAGATAT TTCACGNAAA 50

SEQ ID NO:6870

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08100

SEQUENCE DESCRIPTION:

GATCTTCAGT GTAAATNACC ATGTATAAAC TGTAAGTGC AAA

43

SEQ ID NO:6871

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08101

SEQUENCE DESCRIPTION:

GATCATTTAA TATATTCATA TTACCAAGAC TATTATACTG GAAGTGGTTT TTGTGTTATA 60  
AAGGTTTAAT TTTACATANG GCAGTTACTT AATGTGATT TNAACCCTTA AAAAAGTGGA 120  
GATGTATACA TTTGTTAACA ATGCCATGAA AGCATTNNCT TTCTCCTAAG GAAAAGTGAA 180  
TTTCTTATCA GAATATCTGG CTGGCCCTGT AATTAAAT AAAATAAANT TTGGCGNAN 240  
CAGCAAA 247

SEQ ID NO:6872

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08102

SEQUENCE DESCRIPTION:

GATCTATCTG AGAACAAAGA AGTCGACAGA ATAACATTGA TGACTTTTAA AATAATTAAT 60  
TTATTGGAAG AATGCTTGCA TACAAAAAGC TTCCTGCAGG AATTTTAAAC AAGCTGTCCT 120  
TGGTTATCCC AGGCAATGTC AGTTGATTAA NTAAGTTTA CATGCAAAAG NGATACAAT 180  
TGTAACATTA ATTGGAACAT TAAGTTGGCT TATAAGCAGT ATTTCCACTG CTCCTACAAT 240  
TGNTTTNNGT TATTTGATAN TTNATTTNAN ATTNGTNTT GGTGTGGN 288

SEQ ID NO:6873

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08103

SEQUENCE DESCRIPTION:

GATCGTACCT ATTGCACTCC ATCCTGGATG AAAGAGCCAG ACTCTGTCTC AAAACAAACA 60  
AAAAAGCGTG GGGACTTCTG GGGACAGACA AGGTGCCTGT AATATATTN CTCAGTCTTT 120  
GCCCTGAATG GTCTCAGCTT GANACCATNT CAACTGGAG AGAAGCAAGC CAGCCAATAG 180  
AATGGGGTGA TTTACAGGGA TTTCTGTTTA CTGTCAAAT ATTTCTCATC TGCACTATGT 240  
TTCCATTTGT GGTCTGAAG GAAATTCTTA TAACTCAACA TTTGTCTGGT CTTN 294

SEQ ID NO:6874

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08104

## SEQUENCE DESCRIPTION:

GATCCGACAC TCCAGGCAGA GCAGAGGGCA GGAGAGGCC AAAGAGCTAG GTCAAGCAGC 60  
 TGGCTCCCTT GGAAGGGGAG CCGGGAGACA GGGAGGTCCT CACACTGCCC CCGTGGCCAC 120  
 GCATGGCTGT CTGCACACTC CATCAGGAGG AAGGGCAGGG GAGAAGTCAC ATGCNGTACA 180  
 GTGAAACTNA TCAGTGTAC ACACGCCCAG CAGGAGGGGA GAGCTCTGCT CCACACGCTG 240  
 GCGGCCTTGG CTGCTCCANA GCAATCCGNT TGCTCCANCT TCAAGCCATT GGGGN 295

SEQ ID NO:6875

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08105

## SEQUENCE DESCRIPTION:

GATCCTGTAT TATCCATCTA CATCAGAACC AAATACTTC TCCAACACCC GGCAGCACTT 60  
 GGCCCTGCAA GCTTAGGATG AGAACCACTT AGTGTCCCAT TCTACTCCTC TCATTCCCTC 120  
 TTATCCATCT GCAGGTGAAT CTTCAATAAA ATGCTTTTGT CATTCAAA 168

SEQ ID NO:6876

LENGTH:141

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08107

## SEQUENCE DESCRIPTION:

GATCCTTGAG ATGACTGTAG CCCTGGCTGA CAACTTNATT GCTGCCTGTN AAGGACCCTG 60  
 AACCAGAGGA CTCAGCGAAA TTGTGCCAG ATCCTGACC TACAGCGGCA GTGAGATAAT 120  
 AAATGCTGTT GAGGTCACAA A 141

SEQ ID NO:6877

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08108

## SEQUENCE DESCRIPTION:

GATCTGCTCA CCCTCGGTNC ACANCAGTGT CAGCCATGCA AGCAGGACAG AATGGTGACT 60  
 GGGTGCCCAT NGTGAGCTGT GTATTTCTTA GGAGGTAGAA AACAATAAAA AATTGCATGC 120  
 TAAA 124

SEQ ID NO:6878

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08109

## SEQUENCE DESCRIPTION:

GATCCTCTG CCTCAGCTC CTGGGTGGCT GGGACTGCAG ATACATGCCA CCATGCCGGA 60  
 CAAATTTNTT GTATTTNAG TAGAGATGGG GTTTTACCAT ATTGCTCGGA TTGGTCATGA 120

ACTCCTGGAT TCAAGCAATC TGCCACCTA GCCTCCCTAA GTGCCTGGCC AAATTTTGG 180  
TTTTAATAGT CGATTTGTGT ATATTTTGTG GTAGTATCTA CATATATTTA ATACATTTAT 240  
NTGTTGNTGN AAAAAGTANA ATTTGTAAAA NNTTTGNAAA 280

SEQ ID NO:6879

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08110

SEQUENCE DESCRIPTION:

GATCATTGTT GAACTTCAGC TCCAGTGTCT CTCCAGAATA AGACATTGGC ATTCAAATGT 60  
CTATATCTTG TTAATTACAA AATAAAAAAC AGATTAATTA GTGGCTTTTA AATTGTAGTT 120  
ATATCNGTGT ATATACACGC GGGGNACTGT ATAAAGACAT ACTAAAGGGC ACAGATTAAA 180  
ATAAGTATTA TTANTAAA 198

SEQ ID NO:6880

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08111

SEQUENCE DESCRIPTION:

GATCAAAGTT GTTAAAATTA TAAATNTATG ATGCAGNAAT AAAATTGATA TATTTTGATA 60  
TTCAAA 66

SEQ ID NO:6881

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08112

SEQUENCE DESCRIPTION:

GATCTCTTAC CTTTGAAAA TAGGGGTTAG GCATGAAGGT GGTGTGATT AAGAAGATGG 60  
TTTTGTTATT AAATAGCATT AANCTGGAAT TGACAAGAAA 100

SEQ ID NO:6882

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08113

SEQUENCE DESCRIPTION:

GATCAAAGAA ATAATTCTTT TGCCACTAAA 30

SEQ ID NO:6883

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08114

## SEQUENCE DESCRIPTION:

GATCACTACA ACAATTTGNC TGCCTCCAAG GTCCTCTGAG GCAGAAGGCT CTGGGGNTTC 60  
 TGCTGTCTT TGGNGGGTGT CTTCTGGGTA GAGGGATGGG AAGGAAGGGA CCCTCACCCC 120  
 NGGCNCCTTCT TCTGACCCTG CCACTAAAAA ATTTATGGNC CAAGGGCNCA AA 172

SEQ ID NO:6884

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08115

## SEQUENCE DESCRIPTION:

GATCAGCAAT NAGGGTGAGG ACAAATCTT CTTAATCAAC AAGCTTCACT CCATCTACGA 60  
 GAGGAAGGAG AGGGAGGAGA GGAGCAGGGT TGGGACAACC GAGGAGGCTG CGGCACCCCC 120  
 TGCCTGTCTC ACAGATGAAC AGGATGCCTA GGGGGACGGC GATGGGCCTC ACGGGCCCCG 180  
 CCAGCACCTT GAGACCACAC TGTTGCCTCC CAGTGACCCT GCTGGGACAC CAGGACAAGG 240  
 AAGACAGTTT CGCCTCTNGA AAGCCGCAGC TCGCCTAGG CTGGAGCTGG N 291

SEQ ID NO:6885

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08116

## SEQUENCE DESCRIPTION:

GATCTGTAAA TAAACTTAC ATTTTCAAA 30

SEQ ID NO:6886

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08117

## SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGNCTC CCAAGTGCTG GGATTACAGG CGNGAGCAGC TGCACCCAGC 60  
 CTAGAATCTT GTATAATATG TAATTGTAGG GAAACTGCTC TCATAGGAAA GTTTTCTGCT 120  
 TTTTAAATAC AAAAATACAN AAAAATACAT AAANTCTGAT GATGAATATA AAAAAGTANC 180  
 CAACCTCATT GGNACAAGTA TTAACATTTT GGAATATGTT TTATTAGTTT TGTGATGTAC 240  
 TGTTTTACAA TTTTNACCAT TTTTTCAGT AATTACTGTA AANNGNNNNN N 291

SEQ ID NO:6887

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08118

## SEQUENCE DESCRIPTION:

GATCCCAAGC TCAGTCCCA CAAAGTTCAG GGCCGGTCGG AGGCAGGGGC AGGTCCGGGT 60

CCAAAGCAAG GACACCACAG CTCTCCGAC TCCAGCAGCA GCTCCAGCGA TTCGGACACG 120  
 GATGTGAAGT CCCACGCTGC TGGCTCCAAG CAGCAGGAGA GCATCCCGGG CAAGGCCAAG 180  
 AAGCCCAAAG TGAAGAAGGA GAAGGGCAAG ANGGNGAAGG GCAAGANGAN GGAGGCTCCC 240  
 CACTGANGGG CCCTGGACAG GGCTCATTAA ACCTTCCTCT CTGCCAAA 288

SEQ ID NO:6888

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08119

SEQUENCE DESCRIPTION:

GATCCGCATT GAAGACCCAC CCCGCAGAAA GCACATGGAA TTCCTGGGTG GTGCAGTTCT 60  
 AGCGNTTATC ATGAAAGNCA AAGACAACCT TTGGATGACC CGACAAGAGT ACCAAGAAAA 120  
 GGGTGTCCGT GTGCTAGAGA AACTTGGTGT GACTGTTTCA TAAACTCCAA AGCTTGTTC 180  
 CATCATACCC GTAATGCTTT CTTTTTCCT TTATTGCCAA TCTTTGAACT CATTCAACTC 240  
 CAGGACATGG AAGAGGCCTC TNTCTGCCCT TTGACTGGAA NGGTCAANGT TTTATTCTGG 300  
 TTGTCTGN 308

SEQ ID NO:6889

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08120

SEQUENCE DESCRIPTION:

GATCATGTCT TTTGCAGGAA CATGAATGGA GCTGGAGGCT ATTATCCTTA GCAAACATAAT 60  
 GCAGGAACAG AAAACCAAAT ACTGCACGTN CTCACCTATA AGAGGGAGCT AAATNATGAG 120  
 AACTGATGAA CACAAAGAAG GAAACAACAC ACAATGGGGT CTACTTGACA GTGGAAGGTG 180  
 GGAGGAGGGN GAGGAGCAGA AAACATAACT ATTGGATACT GGGCTTAGTA TCTGGGTGAT 240  
 GAAATAATCT GTACAACAAA CCCCATGNC ACAAGTTCAC CAATGTAACA NACCTTCACA 300  
 TGTACCCN 308

SEQ ID NO:6890

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08121

SEQUENCE DESCRIPTION:

GATCAATTCC CTGGAATAGG GAAGTAACAT TTGCCTTAAA TTTTTCGAC CTCGTCTTTC 60  
 TCCATATTGT CCTGCTCCCC TGTTTGACGA CAGTGCATTT GCCTTGTNAC CTGTGAGCTG 120  
 GAGAGAACCC AGATGTTGTT TATTGAATCT ACAACTCTGA AAGAGAAATC AATGAAGCAA 180  
 GTACAATGTT AACCTAAAT TAATAAAGA GTTAACATCC CAAA 224

SEQ ID NO:6891

LENGTH:28

TYPE:nucleic acid

TOPOLOGY:linear  
CLONE:HUMGS08122  
SEQUENCE DESCRIPTION:  
GATCAAATAA AGTTATAAAA TTGCCAAA

28

SEQ ID NO:6892  
LENGTH:140  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08123  
SEQUENCE DESCRIPTION:  
GATCAGGCCT GGCCACTCCT CTTTGGAGGG CGGTTGAGGC CCACCTGCCT TGGGCTTCCC 60  
AATNCTGATT CCNNTACTAC ACCCTTCCCA GTTCTATTCC CCTCACCACA CTTGCTCCAA 120  
TAAAACTATT TATATACAAA 140

SEQ ID NO:6893  
LENGTH:163  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08124  
SEQUENCE DESCRIPTION:  
GATCGTCATC CCTTCCTGGA GTTCCTATCT TCCAAGATGT GACTGTCTGG AGTTCCTTGA 60  
CTAGGAAGAT GGATGAAAAC AGCAAGCCTG TGGATNGAGA CTACAGGGGA TATGGGAGGC 120  
AGGGAAGAGG GGTGTTTCT TTTAATAAAT CATCATTGTT AAA 163

SEQ ID NO:6894  
LENGTH:253  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08125  
SEQUENCE DESCRIPTION:  
GATCACCTGA GGTGAGGAGT TTGAGACCAG CCTGGCCAAC ATGGTGAAAC GCCATCTCTA 60  
CTAAAATTGA AAAATTAGCT GGGCATGGTG GCAGGTGCCT GTAATCCCAG CTATTGGGGA 120  
GGCTGAAGCA GGAGAATCGC TTGAAACAGG AGGCAGAGAT TGCAGTGAGC CGAGNGGGGN 180  
GCCACTGCAC TCCAGCCTGG GCAACAGGAA CAAAACCTCTA TCTCAAAAAA TAAACAAGA 240  
TTTTTCTGCG AAA 253

SEQ ID NO:6895  
LENGTH:99  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08126  
SEQUENCE DESCRIPTION:  
GATCACTTGC AGCCCAGNAA GTTTGAGACC ACCCTGACCA ACACAGTGAA ACCCNCTCTC 60  
TAAAAAAGTT TGTTTTTAAA GTCTCCTTGA AACATCAAA 99



SEQ ID NO:6896

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08127

SEQUENCE DESCRIPTION:

GATCAAGCTA TGCCTGATNC TGCCTTAAGC CTTATNAGGT CGCCACGGAA CCGCAGAAAC 60  
TCCTGGTGGG CAGAGCTGTG TGTGCCATCT TCATCATTGC ATTACCACCA CCAAGCACAG 120  
TGCCTGGCAC AAAAGAGTTG CTCAATAAAT AAATCAGGAT GANTGGNTAA ATACATGGNT 180  
AGGCACTTTG AGCTACAGAT GCGTTTAAAT ACTTTGTGTT TTTCTTAGTC AAACATGTGC 240  
ANTTANGCAT GTGATAAATG CTATGATGAC CACAANANTG CACAAA 286

SEQ ID NO:6897

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08128

SEQUENCE DESCRIPTION:

GATCATGGTG AAATATTTTN GATATATAAA TTCCTTAAGC TATTGTAACC ATGTTTTATT 60  
GCAAAGATGT AAAATATGCC AGATGTGTGT NAGTTGGAAA TCAAAAAAAG NAAAATAAAN 120  
TATGCAAAGA NTTCAAA 137

SEQ ID NO:6898

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08129

SEQUENCE DESCRIPTION:

GATCCGCAAC AACTCAGCCA TCCACATCCG AGTCTTCAGG GTCACACCCA AGTAATTGAA 60  
AAGACACTCC TCCACTTATC CGNTCCGTGA TATGGCTCTT CGCATGCTGA GTACTGGACC 120  
TCGGACCAGA GCCATGTAAG AAAAGGCCTG TTCCCTGGAA GCCCAAAGNA CTCTGAATTG 180  
AGGGTGGGGG TAATTGTNTG TTGGTNGGCC CAGTTAGTGG GCTTTNNTAA GTGTGTGTAT 240  
GCGGTCTGTA NCTATTGCCA TATAAATAAA NAATCCTGTT GNACTNGTAN 290

SEQ ID NO:6899

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08130

SEQUENCE DESCRIPTION:

GATCATAAAA CGTTGTAAGT TTTCTAAAC ACATAAGCTC TCAATAAACG TTAGCTTATC 60  
ATTGTCACAA A 71

SEQ ID NO:6900

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08131

SEQUENCE DESCRIPTION:

GATCAAACAC TGTCAGAATT GCTGAAATCA ATACACAAAG AGATAAAGTT TAGCTTCTTT 60  
TTACTATTCA ATATTGAACA TAATATTGTT AAATATNGNG ATGAAATGCT GTTGGATNTG 120  
CTNCATTAAA TCTTAATGTA ATATTGTAAG NCTTTTGAGA ATATACTTGA TTAATATGTG 180  
AAAGNNGGGN TTGTTANCTT ATTGCTATNC N 211

SEQ ID NO:6901

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08132

SEQUENCE DESCRIPTION:

GATCATCATC TNCTTGC GGA CTTCTCTGCC TGGTCTTGTG TGTCTGTGA TTCAAACAAT 60  
AAAANGCTGG TNGAACTTAA A 81

SEQ ID NO:6902

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08133

SEQUENCE DESCRIPTION:

GATCAGACAC TGCCTTTTGT GTGTTTGCTG CCTNTGGATN CTTTTTTAAA AAGACTGTGA 60  
CATATTAAAA NAGTGTACAT ATATAAATAT NACCTCTTTT GCTGTACAGT TGTGATAGAG 120  
ACTGAAGNTT TTATTTTNG TGTGCTTTT ATAAGNAAAA ANTTAATACA CTAAN 175

SEQ ID NO:6903

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08134

SEQUENCE DESCRIPTION:

GATCATCTAA TTCTCTGTGG AATAAATACA CACATATATA TTACAAGGGA TAATTTAGAC 60  
CCCATACAAG TTTATAAAGA GTCATTGTGA AA 92

SEQ ID NO:6904

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08135

SEQUENCE DESCRIPTION:

GATCTGGAAT AACTGGAAT ATGTGATACT TAGAATACTT TGGCTGCTAA GGAAACTTCC 60

TCTCCATTGC AGAATAGCTG AGCCAAGTNA GTGAGTTTNC AGAAAGCAGG TGGTGAGCTC 120  
 NTGCCTGCTG GAGGTTGCCA TGGAGGGCCA TTCCTGCCCG GCAACAGCAC CGTCCTGCAG 180  
 GGAGCCACTT GGCAGAAGGG TGCAGGGCTG CTGGTGTGAG AGCAAGAGGG CTACAGGGAA 240  
 AGGGCCCTTT CTCAGGGGAT GTNGNTTTTT TAAAAGGTTT GGGNACACTT GGCGGGTTTG 300  
 CTAAAATTGA GN 312

SEQ ID NO:6905

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08136

SEQUENCE DESCRIPTION:

GATCTCTCTT GCAGTTGAG AATGTCCCAG TTAAGCCACT TAAAAANTCC TCTNTCCTGC 60  
 AGCCCAACAC TTTNCTAAGA GGTACAGAAA NGANAGGAAA TAAACACAC ATCATTATGG 120  
 AAA 123

SEQ ID NO:6906

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08137

SEQUENCE DESCRIPTION:

GATCTCAACA CAGACCCTNA CCAGCTGATN AATNCAGTNA ACACACTGGA CAGGGATGTC 60  
 CTCAACCAGC TACACGTACA GCTCATGGAG CTGAGGAGCT GCAAGGNTTA CAAGCAGTGT 120  
 AACCCCGGGA CTCGAAACAT GGACCTGGGG ACTTAAAGAT GGAGGAAGCT ATGAGCAATA 180  
 CAGGCAGTTT CAGCGTCGAA AGTGGCCAGA AN 212

SEQ ID NO:6907

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08138

SEQUENCE DESCRIPTION:

GATCAAGCCA AAAGAAATAT TTTNAAATA AGCCCTTTTC AAAAGTTTTT GAATTTATAG 60  
 AAAGCACCAA TGAATAACAT ATTTCTGTTT CGTTAATGTC AGCTGCCTGA ACATTCAGCA 120  
 GTTTATAAAT TGCTTAATTT GTGTNATCTA TTATCCAGTA AACCCATAGT TCCATGATAT 180  
 GTCACAGGNA TTGTNAGGTC CTATTTTAAA GGTACAGTCT TGTGGNATGT CATCN 235

SEQ ID NO:6908

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08139

SEQUENCE DESCRIPTION:

GATCCTTTGA GCCCAGAAGT TGGAGACCAG CCTGGACAAC ATGACAAAAC CCCATCTCTA 60

CAGAAAATTT AAAAATTGGC CAGGCGTGGT CGCGCACGCT GTAGTCCCAG CTATTCAAAA 120  
 GGCTGAGGTG GGAGGATTAT GTCCCTGGAG CCCAGGAAGT GGNGGTTGCA GNGATTGCAT 180  
 CACTGCATTT NAGCCTGGGT GACAGNGTAC GCCNCTGTAT CAAA 224

SEQ ID NO:6909

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08140

SEQUENCE DESCRIPTION:

GATCCTGCTG GCCAGAAGCA AGCGGGNCG GCAATAAATC CAAGAAATTG TCCCAACAAC 60  
 CACCAATTCT TACGGAGGAN TATTATTTAG CCAGCAGGAG TCGNGTTTGG TTTACTGCTT 120  
 TTACTGTTTT GNGTTCATGN CTNNTTATTT TAATGGCGTT AAAAGCACAG GCAAATGTCT 180  
 TTGGTAATGC AGCTTAGTAT GANTTCTNTT ANAGN 215

SEQ ID NO:6910

LENGTH:253

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08141

SEQUENCE DESCRIPTION:

GATCACAGAC TCTGAAGNCA GACTGGCAAG ATTCAAATCC CGACTGCCAT TTTAACTGA 60  
 AAGACCTTAG GTAAGTTACC TAACCTCTCT GTACCTGTGT AAAATGGNGA TAACAGTAGT 120  
 ATCCACTTCA CAGAGTTATG AGGNTGAAAT ACATTATAT TTATAAAACG TTTGGACCCA 180  
 GTACTTGGCA CATAGTAAGG CCATGTAAGT GTTTGTAAAA TAAAACTGNA AATAAAGCCA 240  
 TNTCCNAATN AAA 253

SEQ ID NO:6911

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08142

SEQUENCE DESCRIPTION:

GATCACACTG CTGCAAGACC TGACCAAGTG AGCTTCCGGC GTGGGGAAGT GCTGCGTGTC 60  
 ATNACCACAN TGGATGAGGA CTGGCTCCGC TGTGGGCGGG ATGGCATGGA GGGTCTNGTG 120  
 CCTGTGGGGT ATACCNACCT TGTCTGTAG CCCTGGNGNC CTTTCTGCG TATGTGTCTC 180  
 CTTCTGTCA CCTGGGCATG GAATGGCCAG TGAACACCAT CCCAGAAGCA TTTTCCCTCT 240  
 GCAAAATGAC GTTCTTCCC ACGTCTGTTT CTGCTAATAT TAAAAATAAA CTTTCTTCT 300  
 TCCCTCTAT ACCANCTGTA AGGGAAAATN TGCTCTTNTT CCAAATATAT AAAAAGGTN 359

SEQ ID NO:6912

LENGTH:49

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08143

## SEQUENCE DESCRIPTION:

GATCTTTTAC ATTGCAAACA AAATGCTGTA TTGCTTAAAA GGGTTGAAA

49

SEQ ID NO:6913

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08144

## SEQUENCE DESCRIPTION:

GATCAGTTAA TAAACATGAG TAGCTTGAAA

30

SEQ ID NO:6914

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08145

## SEQUENCE DESCRIPTION:

GATCTGAACT GTACAAAGTT CTCATAGCAC CNCTGGGAAG AGAAGGACGT AAACAGAACC 60  
 TGACACCAGC TCCTTTTCCT TNTATACATT ATTTAATACC TATTAAATAC AATTATTTTT 120  
 GGAATAAA 128

SEQ ID NO:6915

LENGTH:425

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08146

## SEQUENCE DESCRIPTION:

GATCTACTTG TAAC TTGTTG GCCTTCTTCC CACATCTGCC TCANACTGGG GGGGGCTCAG 60  
 CTCCTCGGGT GATATCTAGC CTGCTTGTTA GCTCTAGCAG GGATAAGGAG AGCTGAGATT 120  
 GGAGGGAATT GTGTTGCTCC TGGAGGGAGC CCAGGCATCA TTAAACAAGC CAGTAGGTCA 180  
 CCTGGCTTCC GNGGGCCAAT TCATCTTTCA GACAATCTTT AGCAGAAATG GACTCAGGGA 240  
 AGAGACTCAC ATGCTTTGGT TAGTATCTGT GTTCCGGTG GGTGTAATAG GGGNTTAGCC 300  
 CCNGAAGGGN CTGAGCTAAA CAGTGTATT ATGGGAAAGG AATGGCATTN CTNGTTTCAA 360  
 CNAGCGCTAN ATGCAACCAT TNCNCTNTTG TTATAGTATC TAAGGGTNNG NNAGTTAAAC 420  
 GGTTN 425

SEQ ID NO:6916

LENGTH:81

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08147

## SEQUENCE DESCRIPTION:

GATCCACCAC CCAGCTTCAC CCCTACCCC CAGCGGCTCA CCATGGGGAT GGCAGCAATA 60  
 AAATACTTCT AATGGAACAA A 81

SEQ ID NO:6917

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08148

SEQUENCE DESCRIPTION:

GATCAACAAG CTTNCCACG AATTAAAGAG TTTTATCAAG ATATATCGAA TACTTCTACC 60  
 CATCTGTTCA TAGTTTATGG ACTGATGTTT CAAGNTTGTA TCATTCCTTT GCATATAATT 120  
 AAACCTGGAA CAACATGCAC TAGNTTTATG TCAGNAATAT CTGTTGGNTT TCCAAAGGNT 180  
 GTTAACAGAT GANGTTTATG TGCAAAAAAG GGTAAGATAT AAATNCAAGG AAGNAAAAAN 240  
 GTTGNTAGCT AAAN 254

SEQ ID NO:6918

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08149

SEQUENCE DESCRIPTION:

GATCAGAGGA ACCTTAGAGG CCTGAAATTG TTGCTTCCAG TTTAGCTGCC CCTCAAATTC 60  
 AAGTGAATAT TTTCCCTTCT CCCTTTACCC TTCTCCAGAA ATAAAGCAGG TGACAGGGTT 120  
 TTNAGAATCT TAAA 134

SEQ ID NO:6919

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08150

SEQUENCE DESCRIPTION:

GATCAAGAGT AATTACCAAC TTAATGTTTT TGCATTGGAC TTTGAGTTAA GNTTATTTTT 60  
 NAAATCCTGA GGACTAGCAT TAATTGACAG CTGACCCAGG TGCTACACAG AAGTGGCTTC 120  
 AGTGAATCTA GGAAGACAGC AGCAGACAGG ATTCCAGGAA CCAGTGTTTG NTGNGGCTAG 180  
 GNCTGAGGAG CAAGCGAGCA AGCAGAGNAA GAAAAGTTAA ATACCAGNTA AGCTTTTGAT 240  
 TTTTGTATTG TTTGCATCCC CTTGCCCTCA ATAAACN 277

SEQ ID NO:6920

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08151

SEQUENCE DESCRIPTION:

GATCTACCAC CAGAGAGTTC AACTGGNGA AAGNCCTCAT GAGTGCAATN AATGTGGAAA 60  
 ATCCTTTAGC CGAAGCTCCA GCCTCATTCA CCACCGGAGA CTTCACTG GAGAAAGACC 120  
 CTATGCGTGC AGTAAATGTG GGCAGTCATT TAAGCAAAGC TCCAGCTTCA GTTCACATCG 180  
 GAAAGTCCAC ACNGGGGANN GGCCTTATGT GTGTGGGGNC TNTGGGNANT CCTTTAGCCA 240  
 TAGCTCCANC CTTAN 255

SEQ ID NO:6921

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08153

SEQUENCE DESCRIPTION:

GATCTGGCTT NTCCNGGAGG CTNCCATGGT TGGAAGATGG TATCAGAGGG CCTGCCTGGG 60  
 CAGTCTGTCT CCGGGCCAGG GTCAGGGACC CTCTGCCTCT GGCAGCCTTA ACCTGTCCTC 120  
 TGCTAGGACC AGGGTGATTT CAAGCCAGGG AAGCAACTGG GACCCTGAAA ACTGTCCCTC 180  
 CCCAGCCCGG TCCNCGTGTA TGTGCCNTGG TCCCCTTGCT GCCATGTGGA TGCTGTTGTN 240  
 ATTGCTGTTT GTATATTATC AAAATGTTTT TAN 273

SEQ ID NO:6922

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08154

SEQUENCE DESCRIPTION:

GATCTTCTTT ATAACATTTT ATTGTTGAA TCACTTTTAG GATGTAACCT TATAAATAAA 60  
 CATGAGCGCT GATGATTGCG AAA 83

SEQ ID NO:6923

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08155

SEQUENCE DESCRIPTION:

GATCCTCATC TCCATCCTCA TCCTCTTCCT TCACAGCATT TACTTGGAGC TCTTTGTGAC 60  
 ACACCATGTC AGTCATGATG AATCGGCCAA CAGCCAGCCC TTGCCAGCTG ACGTCACAGT 120  
 CTAAGATGGG AACTGTGGT ACAGATAGAC ATGAAGAGAG CTTAGCAGTG ATTGAGGTGG 180  
 TGAATAAATA TACAGTCATT GAATAAA 207

SEQ ID NO:6924

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08156

SEQUENCE DESCRIPTION:

GATCACTGTG GGCTGGAGAG GAGAAGGAAA GGGTCTGCGC CANNCTGTCC GTCTTCACCC 60  
 ATANCAAAGC ATACTAGAGC AAAAAACCAG TTGTAATATA AAATGCACTG CCCTACTGTT 120  
 GGTATGACTA CCGTTACCTA CTNTTGTGAT TGTTATTACA GCTATGGCCA CTATTATTAA 180  
 AGAGCTGTGT AACATCAAA 199

SEQ ID NO:6925

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08157

SEQUENCE DESCRIPTION:

GATCATGCAG CAGAAGCAGA AAAAGGCAAA CNAGAAGAAG GAGGAACCCA AGTAGCTTTG 60  
 TGGCTTCGTG TCCAACCCCTC TTNCCCTTCG CCTGTNTGCC TGGAGCCAGT CCCACCACGC 120  
 TCGCNTTTCC TCCTGTAGTG CTCACAGGTC CCAGCACC GA TGGCATTCCC TTTNCCCTGA 180  
 GTCTGCAGCG GGTCCCTTTT GTNCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC 240  
 ACTCCCGGGG GTGAGGGGGT TACCCNTTCC CAGTGTTTTT AATTCCTGTG GGGCTCACCC 300  
 CAAAGTATTA AAAGTAGCTT TGTAAATCCA AAAAAAANGG NNNNNAGGGN GGGGGGGN 358

SEQ ID NO:6926

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08158

SEQUENCE DESCRIPTION:

GATCTGTACA TTTTACTATC TGTAAATAT TCTCAAAGA ATAAATATA AAAAAAGCA 60  
 AA 62

SEQ ID NO:6927

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08159

SEQUENCE DESCRIPTION:

GATCAGATAC AGCATTAAAC GTTCTCAGT CTCCTNTCC TCATCTGTAA A 51

SEQ ID NO:6928

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08160

SEQUENCE DESCRIPTION:

GATCTTGCTA AAGTTAAAT AAGGAACATT TCACCTTTTA AATATTTAAT TCTNATGTGG 60  
 ACTTATTTCC AGAAACTTT GGTGATAATT CTTGAGACAA AAGGTGGTTA AGTAGCATT 120  
 TTATGTAATG CTTATATACC ATAGAGTTT TAATAGANGA GAAATCCATT TCCTCCGAGG 180  
 GTCATATTA ACAATGTACT TCCTTAAAT TNGTTTAATG ATTGTGATGG GTGCTGCATT 240  
 TGCACATTGC ATTANGGAN 259

SEQ ID NO:6929

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS08161

## SEQUENCE DESCRIPTION:

GATCGGATGC TGAATAAAAC TCACCGTGAA GCAAGTCCCA CTGAACGAAA AGTTGGTCGT 60  
 AGCATTNTC AGCAGCTGCT TCCGGCTCCC TGAGACCCAG CCATGGAAGG CATAGAAAGG 120  
 CATGTGACAA GAAACTCATG GCTTTTAATC CTGGCAGGNC AAGGAAAACC CCGTCAAAGN 180  
 TTTGCATAAN TTTTGTGCT CTCCTGCTGG GGGGGGNNNG NNNNNN 226

SEQ ID NO:6930

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08162

## SEQUENCE DESCRIPTION:

GATCGTTCTT GATTTTGTTC TCATTAGTGT CATTTCCTTG TCATTGAGGA CTTTCCCCT 60  
 TACAACAGTA ACACCATTTT TTGAAGAGCA AAACCTATAA TACCTCCTGG GATTGTNAGC 120  
 TAGTCATTCA GCCTGTGTAA CCATGTGGAA ATAAAAATTG ACGACCAATG TATTATATGG 180  
 ACAACTTTTG CTTTGAGTAA TAACTTGAT TGTAGGAAA 219

SEQ ID NO:6931

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08163

## SEQUENCE DESCRIPTION:

GATCCCACCC ATTCTTTCAC TTTAAGAAAA AACAAATAAT TGTTGCAGAG GTGTCTGTAT 60  
 TTTGCAGCTG CCCTTTTGTA AGANGCACTT TTCCCAAATA AAACAATTAA A 111

SEQ ID NO:6932

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08164

## SEQUENCE DESCRIPTION:

GATCATTGA AATNTCTGGG AGTCTGAGGN GTACTGACAT AATNACCTGC TGGAGTCTGT 60  
 AAATACACAT TTAAGACAGT GAGGATGTGA ATAAATATAT TAATGCAAA 109

SEQ ID NO:6933

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08165

## SEQUENCE DESCRIPTION:

GATCAATAG AGCCCTGTCC AGGTAGAAAA GAAATGGTAT GTAGAGCTTA GATGTCCCTA 60  
 TTGTGACAGA GCCATGGTGT GTTTGTNNTA ATAAANCCAA AGAACATAA A 111

SEQ ID NO:6934

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08166

SEQUENCE DESCRIPTION:

GATCCCAGCT GTTCTAGGCA GGGCCAGGCA GAGTGGGGCG CAGGCCCTNG AAGGGCGAGA 60  
 CCCAGTGGCT GGGCTGCCCA GGGCTGAGGG GCCGCCTCTT GAGGGTACAC GCCTCTGGTC 120  
 ACATGGCCAT GGAGCCTTGG GTACCCCTGA GTTAAGGGAG GACATTGGC CAGCTGGTGG 180  
 CTGGGAGGGG AGCCTGGCTG CCCTGCTGCT TCTCCTGCCT AATAAACAGG CTTCTCCTGC 240  
 AAA 243

SEQ ID NO:6935

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08167

SEQUENCE DESCRIPTION:

GATCTATTTT NATAGTTCT TTTTCAGAAG TAAAATTTTG TACATATATA CATGTACATA 60  
 TCTNTTTAGT TTGGGTTTCAT TTCTATAACA TTTTGAAGA AAATAAAAGT TTGAGCACCT 120  
 GAAA 124

SEQ ID NO:6936

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08168

SEQUENCE DESCRIPTION:

GATCAGTTGT ATGTAAATGT ACATTTTTGT NACTTTGGCT GTGCCCGTTA GAATTTATCT 60  
 TCCATAAAGT ATTTCTCCCA TTGAGTCTAA TGATGTATAC TTTGCCTAGG TCTTTCCAAA 120  
 ATTAATTTA TGTAATGTC TATTTTATAT AAAATATGNT TAAATAAA 169

SEQ ID NO:6937

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08169

SEQUENCE DESCRIPTION:

GATCACATTT AGGAGCAAGC AGGTGAGGGC AGAGGTGCTG GAGTGAACGT CGGCTCTTTG 60  
 GCTGGTAGCC TTACCCACTG AGGGAGAGGA GCTGAAACAT GAAATGGGGA TGCGTGANCA 120  
 ATGTCTCCCT TTTGCAGAGC TGTATTGACT TGTTCAGAA TAACTGATAT GCCTTCACTC 180  
 AGAAGAAAAG AAATGAATGT GAAAGAAAGC CAAGCATCNN TTTGCACTTA AATCANTTAC 240  
 CACGGAAGNT ATATTTAGCT TCAACTTTAG TTAAAAATTA TGTGAATTAA ATATTTTGAT 300  
 TTCCCTGGGN NAAA 314

SEQ ID NO:6938

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08170

SEQUENCE DESCRIPTION:

GATCAAGTGA CTGTTTAATA AATNAGTTGC TTGGGTAGAA TGGAAA

46

SEQ ID NO:6939

LENGTH:21

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08172

SEQUENCE DESCRIPTION:

GATCTTGCTG AAAACCAGAA A

21

SEQ ID NO:6940

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08173

SEQUENCE DESCRIPTION:

GATCAACAAT CATCACCTGC CTTTGTAGA AAAGAAAAAC AAAAAAAGTA AATAAAAATT 60

TTAAACAGTA AAATAAAAGT TTAAA

85

SEQ ID NO:6941

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08174

SEQUENCE DESCRIPTION:

GATCACTACT GCAGCAGAAT GGTCTATGTN ATTTTCCTTC TTGGTTTTT NCCTGACTTA 60

CATTCGTAAT TTTAAGAAAA TTTCTTTACG GGTGGAAGCC AATTACATG GATTAACCCT 120

CTATGACACT GCACCTTGCC CTATTAACAA TGAACGAACA CGGCTACTTT CCAGAGATAT 180

TTNATGAAAG GATAAAATAT TTCTGTAATG ATTATGATTC TCAGGGATTG GGGNAAGGTT 240

CACAGNAGTT GCTTATTCTN CTCTGTAATT TTAN

274

SEQ ID NO:6942

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08175

SEQUENCE DESCRIPTION:

GATCTAAGTT GGGCAAAAGA GAGTCATCCT GTTACCTTAA AAAGGAGTCT AGGGTGAGCC 60

CCAGTCTGCT GGTGGCCATC TTCACCACCT TTGGGGAGAG ATGGCCTCNG CAGACACACA 120

2153480

AAGCAAAGAG GTGGAGAGAA ACTGTGTCTT TGTGTCATTG TTTGAGTCCC TGGACCCAGC 180  
CCAGTCCCCC CGACTACGCT GANCTTTTCA ATTGTGGGGG GCAATAAATT CCATTTAGTT 240  
ANGAAA 246

SEQ ID NO:6943

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08176

SEQUENCE DESCRIPTION:

GATCCACATN ATACCGGTGC TGAAGACCTG CAAGTNATTT TGGAAAAGGG CTGGTGCGGA 60  
TGGAAAGGGCC CAGATTTTGG GAACAAGGAT GCATACTATA ACTTATGTCT TCCTCAGCGA 120  
CCAAATATGA TTAAATAT CTTGGAGTCA AAGACTGCAG TAGAGTGGTA TTATAAATTT 180  
NTGAATAAAG AATCAGTTTA NTTTTTCA TAAA 215

SEQ ID NO:6944

LENGTH:171

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08177

SEQUENCE DESCRIPTION:

GATCTGGACA CGAGCAGTCC CTGAGGGGCG GGGTCCCTGG CGTGAGGCCC CCGTNACAGC 60  
CCACCCTGGG GTGGGTATTG TGGGCACTGC TGCTCTGCTA GGGAGAAGCC TGTGTGGGGC 120  
ACACCTCTTC AAGGGAGCGT GAACTTTATA AATAAATCAG TTCTGTTAA A 171

SEQ ID NO:6945

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08178

SEQUENCE DESCRIPTION:

GATCGGCCCC GGAAAAAGTC TGCCCCAGAA ACTCTCACAC TTCCAGACCC TGAGAAAAAA 60  
GCCACCCTGA ATTTACCCGG CATGCACTCT TCAGATAAGC CATGTCGGCC CAAATCTGAG 120  
TAACTTTATA TAANTATCTC ATGGGGTTTT ATATTTTCAA A 161

SEQ ID NO:6946

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08179

SEQUENCE DESCRIPTION:

GATCCTTGGG GAAGGTTTCA GTTGCACTGT ATGCTGTTGG ATTTGCCAAG TCTTTGTATA 60  
ACATAATCAT GTTTCCAAAG CACTTCTGGT GACACTTGTC ATCCAGTGTT AGTTTGAGG 120  
TAATTTGCTT TCTGAGATAG AATATCTGGC AGAAGTGTGA AACTGTATTG CATGCTGCGG 180  
CCTGTGCAAG GAACACTTCC ACATGTGAGT TTTACACAAC AACAAATGAA AATAAATTTT 240

01985

AATTTTATAA A

251

SEQ ID NO:6947

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08180

SEQUENCE DESCRIPTION:

GATCCCTCTT GGTGTGAGTT TTCTGACCCA ACCAGCCTCT GGTTAGCATC ATTTGTACAT 60  
 TTAAACCTGT AAATAGTTGT TACAAAGCAA AGAGATTATT TATTCCATC CAAAGCTCTT 120  
 TTGAACACCC CCCNCACTTT ANTCCNTNGT TCAGGCCGAT GNGCTTGCTT TCCTTCANCC 180  
 TGTTTGT TTTT CTTATTAGG NCTATTTATT ANTGGTTGGN CCAATGTACT CACAGCTGTT 240  
 GCGTCGAGCA GTCCTTNGTG AAANTNCTGT ATAANTN 277

SEQ ID NO:6948

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08181

SEQUENCE DESCRIPTION:

GATCCAGCTT CAGCTGCACA CCTNTGTCCC CTTGGATGGG GNACTAAGGG NAAACGTCTG 60  
 TTGTATCACT GAAGTTTTTT GTTTTGTTC NATACGTGTC TGCATAAAAA TGCCAAAGTT 120  
 TTTTTTCAAA 130

SEQ ID NO:6949

LENGTH:101

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08182

SEQUENCE DESCRIPTION:

GATCACCAAT NNTNNCTTTG AGCCAGCCAA CCAGATGGNG AAATATGACC CTCGCCATGG 60  
 TAAATACATG GCTTGCTGCC TGTAAATACG TGGTGACGTG N 101

SEQ ID NO:6950

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08184

SEQUENCE DESCRIPTION:

GATCATGAAG ACCTGCTTTA GCCCAACAG AGTGATTGGA CTCTCAAGTG ACTTGACGCA 60  
 AGTAGGAGGG GCATCAGCTC GCATCCAGGA TGCCCTGAGT ACAGTGTTC AATATGCAGA 120  
 GGATGTACTG TCTGGAAAGG TGTCAGCTGA CAATACTGTG GGCCGCTTCC TGATGAGCCT 180  
 GGTTAACCAA GTACCGAAAA TAGTTCCCGA TGA CTTTNNAG ACCATGCTCA ACAGCAACAT 240  
 CAATGACCTT TTGATGGTGA CCTACCTGGC CAACCTCACA CAGTCACAGA TTGCACTCAA 300  
 TGAN 304

SEQ ID NO:6951

LENGTH:268

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08185

SEQUENCE DESCRIPTION:

GATCCTATCT GTNCTGGCAG GACTGGCAGN CATGGTGGGC TACGCCTTGC TCAGNGGCAT 60  
 TGTCTCCATN CAGNGGGCAA CGCTGCTCGG GCCCCAGGCA CCCGGACCCT GGGCATGGCT 120  
 GAGGAGGATG AAGAGGAATN ATTTGTCCTC ACGCTCCAA GACTGGTTTT TNTACTCTNA 180  
 TGCATTCCAG NGGCCCCCGT GCCTCCTCGT TGTGGTACA GCCGGACACG GGGTGCTGCC 240  
 ACCCAGAATA AAGCCACTCA CACTGAAA 268

SEQ ID NO:6952

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08186

SEQUENCE DESCRIPTION:

GATCCACCG AAGCAGCGTG TCCTCCGTGG GAGCCCGAGG TGGGTCCAC CCGCATCTCC 60  
 TCTTCCACAC CCTCCTGGGA CCCAGCCCT GGAGAAGTAG CTCTGGCTTG TTTCTTTT 120  
 NATTAAGAT AATTATGTA TCGACTAAGA AA 152

SEQ ID NO:6953

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08188

SEQUENCE DESCRIPTION:

GATCAGTGGG TCTAAGTNTC CGAGACTTAA CGAAAATAGT ATTCAGCTG CAATAAAGAT 60  
 TGAGTTTGCA AA 72

SEQ ID NO:6954

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08189

SEQUENCE DESCRIPTION:

GATCAGCATC CTNCGNTGCC CCTTAGCAAC TNAGGTGGTT GATTTGAAAC TGTGAAGGTG 60  
 TGATTTTTTC AGGAGCTGGA AGTCTTAGAA AAGCCTNGTA AATGCCTATA TTGTGGGCTT 120  
 TTAACGTATT TAAGGGACCA CTTAAGACGA GATTAGATGG GCTCTTCTGG ATTTGTNCCT 180  
 CATTTGTCAC AGGTGTCTTG TGATTGANAA TCATGAGCGA AGTGAAATTG CNTTGANTTT 240  
 CAAGGGAATT TAGTATGTNA ATCGTGCCTT NGAAACANGG GGNAAAAAN ATN 293

SEQ ID NO:6955

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08190

SEQUENCE DESCRIPTION:

GATCCTTCAA TAAAAAATCA ATGTGTGAAG GTTCCTAGGC ATAAAAGGAA GTTCAGAAGG 60  
NTATGTAGGA AATACTGTTG TCTCTCTGGG GATTGGGATT ACAGGGATTT TTTCTCTTT 120  
NCTTTTGTGTT AAGTTTGTGT TTCCTAAAGT TTCTGCAATA AACGTACGAT GCTTGTATAA 180  
TAAA 184

SEQ ID NO:6956

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08191

SEQUENCE DESCRIPTION:

GATCTTGAAT TTCTACATAA CTTTCTCAGT TTATATGCCC TGTGGCAAGT GCAGCAAGCA 60  
CTGTTTCCTG TTTCTAAACT TGTAGAAAAT CATCCATACA TCTTACAGTT GTCAGTTTTA 120  
ACCAGATAAC AGTGGCACTT TGTTGCTGCT TTTTATCTT TAGCTTAGGT TAACAGGACC 180  
CTGGAAGTAA AGTTGTTGAT TTATTCAATA GAGTATTCTC AATTAATTG GCTAGATTTC 240  
TACATGATTC AAANTCTAAA AANGTAGACA TGCATGCTTA CATGTCTAAG GCCTGAAAAA 300  
TTGGNGGGGN CATCCCAAAA TAAATGN 327

SEQ ID NO:6957

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08192

SEQUENCE DESCRIPTION:

GATCTAAGTG GTGGTATGGA AA

22

SEQ ID NO:6958

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08193

SEQUENCE DESCRIPTION:

GATCTGTTGA CAATGGAGCA AGTGAAAGAC TTGCTGCTA ATGTGTATGA AGCTTTTAGT 60  
ACCCCTCAGC AACTGGAGAA ATGATTTTCC CTTCAAGAAA AACTACAGTG GGATTCATTT 120  
ACTTTTAAAA ATACACTGGG TAAATCACCT ATACTTAGAG TAACAGTTTG TTATCAAAAT 180  
GCCTGNTAAA ATATATNCTT AATAAANGTC TTCATTTTCAT AAA 223

SEQ ID NO:6959

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08194

SEQUENCE DESCRIPTION:

```
GATCTTACTT GCGAAATGCG ATGGTTGCTG GGAATACCTG AAAGTGTGGA TTATATTGCT 60
TGAAGTCTAC CTCAGAATCT NCTTTGTTTC ATGACTTAAT AGTGCTTTAA GTNNGGTATA 120
TNATTTNACC NCTAGGAATT CTNTGTTTAA CACAGAAATA AAAATTTTAA AATAGAAAAT 180
GCTTTTACTT TGTAAGGTAA GNGAGTATCC ATATGCTTAG ATGTGCTCGT TTCTAAAATN 240
CTAGNGGTTG CTATANTCAG CTCATGGAAT GCACAGCTAT TGCTTTTGT GNTAGATTGT 300
ACATAAACAT CAGCAGNTGN AAGGGNAAAT N 331
```

SEQ ID NO:6960

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08195

SEQUENCE DESCRIPTION:

```
GATCACCCAG ATGCAGTGAA GCTTTTNACC CGCCAGCTTT TGGAAGTCCA TCAGGGACAA 60
GGCCTAGATA TTTACTGGAG GGCTAATTAC ACTTGTCCTA CTGAAGAAGA ATATAAGCT 120
ATGGTGCTGC AGAAAACAGG TGGACTGTTT GGATTAGCAG TAGGTCTCAT GCAGTTGTTT 180
TCTGATTACA AAGAAGNTTT AAAACCGCAA A 211
```

SEQ ID NO:6961

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08196

SEQUENCE DESCRIPTION:

```
GATCATTGTA GATGAAGTGA AGCAAGAAGT TATCAGTACC AGCAGCAAGG CAGANCCNCC 60
CCAGTGCACC TCCCTGGCCT GGTCTGNTGA TGGCCAGACT CTGTTTGCTG GCTACACGGA 120
CAACCTGGTG CGAGTGTGGC AGGTGACCAT TGGCACACGC TCGAAGTTN TGGCAGAGCT 180
TTNCAACTAA ANAANAANCT GGCATAAA 208
```

SEQ ID NO:6962

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08197

SEQUENCE DESCRIPTION:

```
GATCCCAGCC CTTAGGTGGG CAGAGGCAGA CCCTCCCCAG AGCTCCTTAG GAAGAAGACA 60
GACTGGTTCA TTGAATGCCG CCTTATTTAT TTCTGGTGAG GATGCATGCG TGGGGCTGCT 120
GGTGTTTAGA GTGGGGGCTA CCCTTNTAAA TCACTGCTAC TCAAA 165
```

SEQ ID NO:6963

LENGTH:280

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS08198

SEQUENCE DESCRIPTION:

GATCACTCTN GGTGAGCTNC TCTTTCTTTA TCTNTCTTTC TCCTTTTTTA AGAAAACGAG 60  
TTAAGTTTAA CAGTTTGTCA TTACAGGCTT GTGATTCATG CTTACTGTAA AGTGGAAGTT 120  
GANCTTATTT TAAAACTTCA AGCTCAGTAA TTTTGAACAC TGNAACATTC ATCTAGGNCA 180  
TAATAACAAA GTTCAGTATT GACCATAACT GTTAAAACAA TTTTAAGCTT TCCTCAAGTT 240  
AGTTNTGTTG TAGGNGTGTA CCTAAGCAGG TAAGCGTANA 280

SEQ ID NO:6964

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08199

SEQUENCE DESCRIPTION:

GATCCATATA TGTGTGCATG TCATGAAATA AAAGNATCAC ACANCACAAA A 51

SEQ ID NO:6965

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08200

SEQUENCE DESCRIPTION:

GATCTTGGAG CTTCCCTGTA GCCCACCTTC CCCGTGCTTC ATGTTTGTAG AGGAACCTTG 60  
TGCCGGCCAG GCCCAGTTTC CTTGTGTGAT AACTAATGT ATTTGCTTTT TTTGGAAATA 120  
GAGAAAATCA ATAAATTGCT AGTGTTTCTT TGAAA 155

SEQ ID NO:6966

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08201

SEQUENCE DESCRIPTION:

GATCCAGCAT TGGGGCCACT AACTCCAGC CTGGACCAGG GAGCGAGACT GTCTCAA 58

SEQ ID NO:6967

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08202

SEQUENCE DESCRIPTION:

GATCAGGCTT CAGGATAGCC CAGCACTGAG GACATCTAAA ACAGTCTTCA TTTATTTATT 60  
TATTGTTTAT AGTGTCAAA AGTTGGAATT AAAGTGAATG GCTGAATCAA A 111

SEQ ID NO:6968

LENGTH:39

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08203

SEQUENCE DESCRIPTION:

GATCATGACA AAGAAGATTA AAATTCATT AGCATGAAA

39

SEQ ID NO:6969

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08204

SEQUENCE DESCRIPTION:

GATCAATTGT ACCCCATACC TCAGCATCAT GCAATATAAC CATTAAAGAGA CCTGCACATG 60

TATTCCTGA ATTTAAAATA AAAGTTGAAA

90

SEQ ID NO:6970

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08205

SEQUENCE DESCRIPTION:

GATCATTGCA GTCTCTGGCT TTTTNACTCC AGGCGGGCTC CGTGCCCTCC GGGGCCTCTT 60

CTTCCTTGTN AGGCCAGTGG GAGCCACAGA GGCCTCATTG GCTTCCTATG AATATNAAAT 120

GGGATTCTCT GTGGGGGAAG CTTCCATAAG GCAGGAAGGG GTCCCCGGTT GTTGGCTATN 180

AGTGTATTT NCTTTTAAAT CATCTGTGCT CTTCAAAGA CGACGTAAGA AGCTTGTGCC 240

CTGGCGTTGC AGAAATCTCT GGCTGTAGGG ATTAAACCTA CATGTCTTCC TGATGGGGTG 300

GTGAGGACGT AAACN

315

SEQ ID NO:6971

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08206

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAGGAGT TCACGACCAG CCTGGCCAAC ATGGTGAAAC CCTTCTCTAC 60

TGAAAATACA AAAATTAGCC AGGTGTGGTG GCGCATACCT GTAGTCCCAG CTAATTGGGA 120

GGCTGNGGCA GGNGAATCAC TTGAACTCGG GAGGCGAAGG TTGCAGTGAG CCGAGATTTC 180

ACCACTGCAC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTCAAAAAAA ANNTAATTAN 240

AAAAAATTGC AGCTGCNGGA AA

262

SEQ ID NO:6972

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08207

SEQUENCE DESCRIPTION:

GATCTTGAGT GTCTAGTATT TNAATAATGC ACTATTACCC AGGGCAGNTA TTATGAGAAA 60  
CTGTTTCTNC TCTAAGGGTT TATGGCAGAC TTTGCTTTT NAACATGTGA GANATGAN 118

SEQ ID NO:6973

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08208

SEQUENCE DESCRIPTION:

GATCTGAGTA TTCCCCAAGG GCACTCAGCC ACAGGGNTGA ACTAGTGTTT GTTTGTATCC 60  
TTGCAGTTAT GTGACTTAAA GTGACTCAGA GATATCTATG TATGCNNGTG TACTCCGCTG 120  
GCAATGAAGT AAATATATCA ATTTGTGGNA AA 152

SEQ ID NO:6974

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08209

SEQUENCE DESCRIPTION:

GATCCTCCTG CTTTGGCCTC CCAAAATGCT GGGNTTATAG GCATGAGCCG CTGCACTTGG 60  
CCTGNTACTG ATTTTAATNN CTTGCGTTAT CACATAGTGT TGTATTTGAA ACATAGTTCA 120  
TGGTTTTATC AAAGAACTGA AGNTGAGAAT ACTGGTCATC TAACTTTGTA ATTTGATTG 180  
ATTATACTGT AAAGTTTGAC AGTCTCATTT TATCACTGCG TTTGTATCTA TNACTAAANT 240  
GTATTTNTTG ACCTCTTACT GATTCATTGT TGGTNTGTNC AAACGTGTGA CTNGNTN 297

SEQ ID NO:6975

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08210

SEQUENCE DESCRIPTION:

GATCCTGTCA CCCAGGTAGT GAGTATAGCA CCCAGTGAAA CTGTAGTCTC ATNCCAGGCA 60  
CTGTGCTAGC CCACTCTGGG TCATTTAATC CTCTCCTAAG AAGAGAGGAG ACACAGCGTC 120  
CCCATTTGAC AGATGCAGAA AGAGGTTCCA CAGGTGTGCN TTGATTCTNT CCTAAAACCG 180  
TTTCCCGGAA GCTTTTCCTG GTGTGGGCGC TTCTAACCTA ATCCTCAATC GNTTCCAGNA 240  
CTATTACTCT GTTCCACAG TGNTACTGTG TCTAGGTTT ANGGGCGGCA AGTTCNATTT 300  
N 301

SEQ ID NO:6976

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08211

## SEQUENCE DESCRIPTION:

GATCCTTCCG ACTTGGCCTC CCAAAGTGTT GGGATTACAG GCATTAGCTA CCACACCTGN 60  
 CCAAGGCCCA GGTTCGACA GAAAGGGAGA GAAAACCTGC CAGAGATGCC ATTCGGAGC 120  
 CACTCTGCTT GGCAGGGACC TGTGTTCCCT TCATGCAGGT TCATCCTTAG AGGGCTGCGG 180  
 TCTTATCTGG TTGTGCAAAA GTCCCACAAC CTTTCTGGAT TGATAGTTTG TGGTGAANNT 240  
 AAACAATTTT AGTTTGTGTTG GAAA 264

SEQ ID NO:6977

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08212

## SEQUENCE DESCRIPTION:

GATCAGAACT ACAATTACAA CCAGCATGCG TATCCCACTG CCTATGGTGG GAAGTACTCA 60  
 GTCAAGACCC CTGCAAAGGG GGGAGTCTCA CCTTCTTCCT CGGCTTCCCG GGTGCAACCT 120  
 GGCCTGATGN AGTGGGTGAA GTTTTGGTAG GCAATTCTT GCAACCACCA CCGNGGCCCC 180  
 GNAAAGCACT GGTCGTNAGG GAGCTCCTNN CCTTGCCCCN CACGCCTGTG CCAGCCCTGG 240  
 NCCCGNCTGC CACACCTCTG TTTCTTANGG CTGGGGACNC AGATTGTNTC TCCTTNTTTC 300  
 TTNCNACTGC AATGTGCN 318

SEQ ID NO:6978

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08213

## SEQUENCE DESCRIPTION:

GATCATNCTG CCCCATNTCC ACGCACCCAA AACCAGCCCT CTCGCTTCTA ACACAGGGCA 60  
 CCTGCTGGGG CTCAGGGATG TTAGGGACGA GTTCCAGNCC TGCCACTNCC CTNNGGCGAC 120  
 CCCTCNCTGT CCCTGCCTCC CTGCTCTGCC GCCCCTNTTN CTGGAN 166

SEQ ID NO:6979

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08214

## SEQUENCE DESCRIPTION:

GATCCGATAC AGATTACATT TCTTGCCAGA GAGTGTGCT GTTGTTCCTT TAGGTAAGTG 60  
 TGTATTGGTG ATTCATAAT AAAAGCAGTA ACAATACTA CCAAA 105

SEQ ID NO:6980

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08215

## SEQUENCE DESCRIPTION:

GATCAGATAC ATGAACATGT CTTACATGGG TTGCTGTATT TAGAATTATA AACATTTTTC 60  
 ATTATTGGAA AGTGTAACGN GGACCTTCTG CATACCTGTT TAGAACCAAA ACCACCATGA 120  
 CACAGTTTTT ATAGTGTCTG TATATTTGTN ATGCAATGGT CTTGTAAAGG TTTTAAATGN 180  
 AACTACCAT TAGCCAGTCT TTCTTACTGA CANTAAATTA TTAATAAANT AAA 233

SEQ ID NO:6981

LENGTH:72

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08216

SEQUENCE DESCRIPTION:

GATCTTTCCA GAGGTCCATG GTGGAAGACG ATAACCCTGT GAAATACTTT ATAAATNTC 60  
 TTAATGTTCA AA 72

SEQ ID NO:6982

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08217

SEQUENCE DESCRIPTION:

GATCACCCAT CTGTGTGCTT CCATCCTGCA TTAATAATTCA CTCAGTGTGG CCCAGAAA 58

SEQ ID NO:6983

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08218

SEQUENCE DESCRIPTION:

GATCTCCAAC AGCCAGTGTG TGTTTCCCAT CTCTTGTAGG TTCCATCAAT GGTGAGCACC 60  
 AGCCTGAATG CAGAAGCGCT CCAGTATCTC CAAGGGTACC TTCAGGCAGC CAGTGTGACA 120  
 CTGCTTTAAA CTGCATTTTT CTAATGGGCT AAACCCAGAT GGTTCCTAG GAAATCACAG 180  
 GCTTCTGAGC ACAGCTGCAT TAAANCAAAG GAAGTTCTCC TTTTGAACCT GTCACGGATT 240  
 CCATCTTGTA AAGGATATTA AATGTTGCTT TAACCTGAAA 280

SEQ ID NO:6984

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08219

SEQUENCE DESCRIPTION:

GATCCAGAGA CTCGTGCTGT CTCTTTGTCC CTTTCCTGAT GGTGTTACTT CGATTAACTA 60  
 CTTTCAGCTTG GTGTAAAAAT TGCCAAAGCA GTTGCCCTGCC ACAACTTTGT AAAAGCCAAA 120  
 AAGGAGGTTG AAAATTCACA GGCTGCCCGA AAAAAGANGA AACTTGCATG GGGGTTTGAA 180  
 GCAAAGNNGN GATGGGAAAC CNAAAGCAAC ATGGGNTACA TGTAACCTGC CAGAGTGCTT 240  
 CAAGACATTT GTAGCCTCAA ATGCTCAAAT TTANTGNGAA TGTTTTCTCG CCTATGTTCA 300

TATGTCAGGT N

311

SEQ ID NO:6985

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08220

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAAG GGGNGTTCTG CTGCATACAC TCTGTCTTGC CTGCTGNCAT 60  
 GCAAGATGTG ACTTAGCTCC TCCTTTACCT TCCACCATGN TTGTNAGGCC TCCCAGCCA 120  
 TGTGGAACGTG TGAGTTGANT AAACCTCTTT CCTTTATAAA 160

SEQ ID NO:6986

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08221

SEQUENCE DESCRIPTION:

GATCAAAAGA TAACGTCTTA TNATAGTAAG ATAACCTTGG AACAGAACTG TGATTAAAAA 60  
 CCTGAATAAT AAAAACACA CAAGACCCAT TAAACCTAT TCCTCACTTT TTAAA 115

SEQ ID NO:6987

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08222

SEQUENCE DESCRIPTION:

GATCCAGTTG GATATAGTAA CCACTGCCGA CTTNCTGGAT GTGCTAACTC ACACCAAGCC 60  
 CTCCGNAAAG AATCTGGCTC AGAGATACTC AGACTGGCAA AGAGAATTCG AGTCTGTCTG 120  
 AAACCACATT TACCCTGACC TGGCCACAAA GGCAACCACA AAGACCTCCT AGTTTATTAN 180  
 NGNNCGTGGG AGAACAAAAT GATTGGAATG GAAAAGAGAA AATTATTTT GANGACTGGA 240  
 TTAACCTGAG CCACTGTATT GTTTTGGNTA GCTGAGATAT ATTNNTAAC TTTACCATTA 300  
 TCGATGTCAG CAAAATATTG AGAGTTTCTT N 331

SEQ ID NO:6988

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08223

SEQUENCE DESCRIPTION:

GATCTACTCC CAGTTTTTAA CTTTNNACAG AATATTGTTG CTTTCCTACA ACAATGTACA 60  
 TATATTTNCA GTTGATATG CTTTTTTTTT TNCCAAATAA AGTTTGAGTT CTAAACTCAA 120  
 A 121

SEQ ID NO:6989

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08224

SEQUENCE DESCRIPTION:

GATCCTTCCC TGGCTCTCAC CTGCTCCTTT AGGCTGTAAT TGCTTCCTAC ACACGAAGCC 60  
TCTGATTGGA GCCTCTGGTN CATCTCAGAA AAACCTTCCA AGAGCGCTGG GGTTTATGCT 120  
TTCTGAATAA ACACTACTGT TTACATGGA A 151

SEQ ID NO:6990

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08225

SEQUENCE DESCRIPTION:

GATCTCCATA ATTTAAGAT ACTCTATGTT AAACATTTT TNAAGTNCCT TTTTACATC 60  
ACGCTGAAA TGCACGAGNG TGGCGGTTTC TGTTTCACTG GTTNNTTGT TCATTTTN 119

SEQ ID NO:6991

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08226

SEQUENCE DESCRIPTION:

GATCCCGGGC CGTTATCCAT CTGGAGGCTG CAGGGTCCTT GGGGTAACAG GGACCACAGA 60  
CCCCTACCA CTCACAGATT CCTCACACTG GGGAAATAAA GCCATTCAG AGGAAA 116

SEQ ID NO:6992

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08227

SEQUENCE DESCRIPTION:

GATCCGCTGG GACAGAGTGC CCACCGTCGT GTCTTTNATA TCTCTGTAAT AACCCACAGT 60  
TAAAAAGGGC AGGAAAAGGC ATCAGGGTAC CATGTTATCA GGCAAGTTCT TACATTCTAA 120  
GAAAATTCCT AGCTTTGTTG GGTGAGGCAA GTTTTTAAAN GAANAATGTC ACTTCCCAT 180  
TTGATAANGA TTTCGTTATC ANTAAA 207

SEQ ID NO:6993

LENGTH:325

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08228

SEQUENCE DESCRIPTION:

GATCCTGATT GTAAGGTTTT CCACCTATTT CCCTGGATAT TTNNTGGTC AGTACTGGCT 60

CTGGTGGGTG TTCCTTGTTT TAGGCTTTCT CCTGTTTCTN AGAGGATTTA TCAATTATGC 120  
AAAAGTTCGG AAGATGCCAG AAACTTTCTC AAATCTCCCC AGGACCAGAG TTCTCTTTAT 180  
TTATTAAAGA TGTTTTCTGG CAAAGGCCTT CCTGCATTTA TGAATTNTGG TCTCAAGCAG 240  
CAAGNGAACA CCTGCAGGAN GTGAATCAAG CTGCAGAACA CAGAGGNNTA CTCACCTGCT 300  
TTAAAAAAAT ANAGTACTGT TGATN 325

SEQ ID NO:6994

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08229

SEQUENCE DESCRIPTION:

GATCCCTCGG GNNTTAANTA CANGAAACCT AGAACTGACC AAAAGGCATT ATAACTCTGA 60  
CTCAAATACA AGGTACAGAA GATAAGCATC TTTGAGGAAA CTCCTACTTC AGTTCTTTTG 120  
TTATNATGNN 130

SEQ ID NO:6995

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08230

SEQUENCE DESCRIPTION:

GATCATATAA CATTCCAGGT ACTCAGGATG AATGGTTTGA GGACTGGTCT GAATTCTTCA 60  
AAGGTTTCAG CTGTATTAAC ATTCTCCATC TAATAAACTT TATCTTGTC TGAATA 116

SEQ ID NO:6996

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08232

SEQUENCE DESCRIPTION:

GATCAGCAAA TAAATGAAAT TTATTAAG AAA 33

SEQ ID NO:6997

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08233

SEQUENCE DESCRIPTION:

GATCTTTAGG CAGTTTTTAC TTGGCCAGAA AGCAGTGCTG AATACTTGNA ACTGTGTGCT 60  
CTGTTCTACT TAATGTTCTG TCAGAATGTT CTTTGTAGG CAGTATGTCA TGNTGTAATC 120  
ATCTATCTCC TNGTCTGTTT CCAAGTTNNN CTGTGAAGTC TCGACCCCTT TTGNGGTGGT 180  
CATCANAGTC ACAGATTCCT TGTTTAACCA NGTGTCCNA AGCATGTACC TGNAGTTATA 240  
TCATNN 246



SEQ ID NO:6998

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08234

SEQUENCE DESCRIPTION:

GATCATTATG CAATAAAGCT GCTAAAGTCA CATTGTGGT TGATACTCAA GCCTTGATCA 60  
AGCACATATC ATGTAGACAT TTTTAAATGT GAAGCTTTAA CAGGNATAGG ATAGCTGTTT 120  
CAAACCTTGT GCAATTGTAA ATAANTTGT TAGCTGTGT TCTTTCATT TTAATANAAA 180  
NTTAAA 186

SEQ ID NO:6999

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08235

SEQUENCE DESCRIPTION:

GATCTTCATA TTAATCTTAA AATTTGTGA CGTGTCTTT TCCTTTTTT CCACAGTTT 60  
AATATATNAT TCTTCAACGA CATTTTTGT AACTTTACAC TTTTTGGTT ATNTTATTT 120  
AAAAAATGA AAAATTAATT TAAAAAATG CAAA 154

SEQ ID NO:7000

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08236

SEQUENCE DESCRIPTION:

GATCTGGTAC GNGGNGGACG NCATGGCCCG AGATGCCAC GGAACACAG CGCTGACCTA 60  
CGCCCGNCAG GCCTCCAGCC AGGAGTGCAT CAACGTGCTT CTGCAGTACG GCTGCCCCGA 120  
CGAGTGCGTG TAGTATCTGT TTTATTTNNC TGNAGTCTCC TTGGTGTAAG AACAAATNG 180  
GNAAAATAAG GATAN 195

SEQ ID NO:7001

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08237

SEQUENCE DESCRIPTION:

GATCAGGCCC TAAACGTTG TTGTGATGAG GTTCTTTAG CAAGTCTTG TTAAATTAT 60  
CATTTATTTG ATGAGTGAAG TTTTAAACAT GCTTTGCTGT GTGAAATTA AAAAAGGGAT 120  
GTTTTCCAG GCTGGAACAA TAAATGTGGC TGTGCAGTT AAA 163

SEQ ID NO:7002

LENGTH:127

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08238

SEQUENCE DESCRIPTION:

GATCTTTGTG AAAGTAGTAC AGTATATNAC CTTTAATTNC TTTTATTTT TAAATATACT 60  
GTNACCNTGA AGCACTGGTT GGGCATTTTA ATTCATGTTA ATAAATCACA ATTATGTCAG 120  
TTTAA 127

SEQ ID NO:7003

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08239

SEQUENCE DESCRIPTION:

GATCAGCCTC CTGTCTTATG TGGGCACGTT CCAAAGTTTA AATGCATTTT TTTGACTCTT 60  
GGCCAAAATT TAGAAGATGC TGTGAATATC ATTTTGAAC TGTGTAAATA CATGAAAGAG 120  
AAA 123

SEQ ID NO:7004

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08240

SEQUENCE DESCRIPTION:

GATCTCAGCA TTACCTCTTT GGNAAAGGAA GGTAGTTCAA GAAATGAAGA GCTGTTGATG 60  
GGATGATTGA AGAAACAGCT ATGAGAGGAT TGGCTCCCAT CTTTGTNAC TCTGGGNCA 120  
TCCTGTCATC TGAGAATGAA CAAAGACCAA TTTTGTGT GTGAAGCTTA AGGGTCATAT 180  
GTTTGCTTGT NTTTNTNAAT GCTAATCCTT GTGAAANTAA ATGNCCAGG CGGAAGGAAA 240  
NCTCTATTT AGGATNCAAA 260

SEQ ID NO:7005

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08241

SEQUENCE DESCRIPTION:

GATCTGTATT TNTATATACA CGTGTCCGNA CAAGTATAAC TAAATAAAAA TTAAAGNTTT 60  
TAATCATTTT AATTGGAAA 79

SEQ ID NO:7006

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08242

SEQUENCE DESCRIPTION:

GATCATATTT CTGCCAAGNA TGTGCCTTCA ACTTTATAAT TATAGTGTG TAAAATAAA 59

01999

SEQ ID NO:7007

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08243

SEQUENCE DESCRIPTION:

GATCTCACTT TTNCTTATTA GAATTGTAC CTTTGTGTTGA TTAAGGAAAT AAAAGATGAA 60  
TGACAAA 67

SEQ ID NO:7008

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08244

SEQUENCE DESCRIPTION:

GATCAGTCTC TCAGTGCCTN CCTACTGGGC AGCTCATCTG TCCACTTATT CGTATTAAAT 60  
TTNCTTTTAA TTTAAA 76

SEQ ID NO:7009

LENGTH:162

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08245

SEQUENCE DESCRIPTION:

GATCCACATC CCANATGCTG AACCAGAGAG CCCCTCATCC CTCCTCCCAG TACTTAGGCA 60  
GCGCCTTCTG TGTGCACTGC CTCTTGCCGG GCACTGGGTA GGTGCACACG NGGACCGGGA 120  
CAGGGCCAGA NACTTTGGTN CCCGNGGTTT GTNTGNGGGG NN 162

SEQ ID NO:7010

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08246

SEQUENCE DESCRIPTION:

GATCGATTAA GTCTAGGAGT TTNAGACTTG CCTGGGCTTA GCAAGACCCT GTGGCAAA 58

SEQ ID NO:7011

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08247

SEQUENCE DESCRIPTION:

GATCCTTGAG TCTCCNCTCT GGATGGAATC CGCGAGCTGG CCACCTGGCC ACCCTCTACA 60  
CGACTCCACC CNCCATGGC CGTGGGGCCC TTACTCTCTG ACTTCTCAGG ACACAGGTCA 120

2153480

TGGAGGTTCT TCCCAAGCTG GCAGAGGCCA TTTGTGGAAA GTGGAGAGCT ACGTGGTGGN 180  
CATCTGCCAA CTCAGCATC TCTGGNGGGG NTCCACGNTG AATGTNATTT TTGAAAACAG 240  
CTTATGTANT TAAAGGTTGA ATGGCACATC ATAAA 275

SEQ ID NO:7012

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08248

SEQUENCE DESCRIPTION:

GATCAAGACC ACCCTGGCTA ACACGGTGAA ACCCTGTCTC TACTAAAAAT AAAAAAANTT 60  
AGCCGGGCAT GGTGGCACAC GCCTGTACAT CCCAGCTACT CANGGNGGCT NGTGGCATGG 120  
NGNN 124

SEQ ID NO:7013

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08249

SEQUENCE DESCRIPTION:

GATCANGAGC CCTTTNCTC CAGTAGTACA GGCTTTGAAA ACTACTTCTA TTAAGTTATT 60  
GATGCAATTT GATATTTTT CATAATCTAT ATTTAAACAA AATTACATCA TTGCATCATC 120  
TTTTCTAAAT TCATCTCCAT TAAAAGCTGC CTTAAGCTAC CAGNTTGCTT TTGCCANNNGN 180  
NGGCCATACT GTGTGTTTGT TTGTTTAATN NNCTN 215

SEQ ID NO:7014

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08250

SEQUENCE DESCRIPTION:

GATCTCTCAG GGATAGAAGA TATTCTCAT GAAGGCAGCC TAACTCTGAG GAAAACAATG 60  
CCAATTCAAG TACAGATTTC AACACATCTT CAACACTATG TGAAGGGTTC ACATCTTAAC 120  
CTGTGCAATT CAGATTGATA CTCAGAATAT GGGTTGATT GAATATCTGA AATATCAATG 180  
GAAAATCCCA CTNNGTTTTT GATGAACAGT TTGAACAGTT TTCTGTAATC AAGCAGCTTG 240  
CATAGAAATT GTATGATGAA ATTTNCGNN GGTCTTGGT GCTGTTTTGT TCTTTTTTTG 300  
TTTTTTGTTG TTTTGTTATT TACTTATATA CATATAANCT TTTNTGAAA ATATGTTTTG 360  
GTTACTAANA GTN 373

SEQ ID NO:7015

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08251

SEQUENCE DESCRIPTION:

02001

2153480

GATCCCAACC TGGACCCACT CATGAACCT CACATCCGCG TGGGCCCCCTC CTNAGCCCN 60  
TTGCTTGTGG CTAGGCCAGC CTAGGATGTG GNTTCTGTGG AGGAGAGGCG GGGTAATGGG 120  
GAGGCTGAGG GCACCTNTNC ACTGCCCTC TNCNTCAAGC CTAAGNCACT AAGACCCAG 180  
ACCNAAAGCC AAGTCCACCA GAGTGGCTGC AGGNCAGGN 219

SEQ ID NO:7016

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08252

SEQUENCE DESCRIPTION:

GATCGCTTGA ACCCATAAGC TGGAGACCAG CCTGTGCACA TGGTGAGACC CTGTCCCTAC 60  
CAAAAAAAT AAGTCATTA GAGTTTTAA A 91

SEQ ID NO:7017

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08253

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTATAAGG GGCTTCCCC TCACTCAGC TCTATTNTT CTCTCTCCTG 60  
CCACCATGTA AAGAAGGATG TGTTTGGTTT CCCTTCCATC ACGATTGTAA GTTCCTGAG 120  
GCCTCCTAAG CCATGTGGAA CTGTGAGTCA NTTAAATCTC TTTACTNTAT NNNGNN 176

SEQ ID NO:7018

LENGTH:174

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08254

SEQUENCE DESCRIPTION:

GATCATCACT TACCCACCCC CCAAGTTCAA GACCAAATCT TCCAGCTGCC CNNTTCGTGT 60  
TTCCCTGTGT TTGCTGTAGC TGGGCATGTC TCCAGGAACC AAGAAGCCCT CAGCCTGGTG 120  
TAGTCTCCCT GACCCTTNTN AATTCCTTAA GTCTAAAGAT GATGAACCTC TAAA 174

SEQ ID NO:7019

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08255

SEQUENCE DESCRIPTION:

GATCCTCCCT TTCCTATAGN GNTAAAAGTG ATTTATCTTG GCAAA 45

SEQ ID NO:7020

LENGTH:109

TYPE:nucleic acid

02002

2153480

TOPOLOGY:linear

CLONE:HUMGS08256

SEQUENCE DESCRIPTION:

GATCATGTGA TGTTGGAGTA GGAGGGTTTA TTTGGTGAC TTTGGGATGC TGGTTTCATT 60  
GTAGGTATAA TNATGNGGNG CAAAGAATCC AGGNAAGAAT TGCCAGAGN 109

SEQ ID NO:7021

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08257

SEQUENCE DESCRIPTION:

GATCCCACTG AGGCCAGAGA ATAGGGTCTG GAGACAAAGG AGCATTCACT TCAGCCTCTG 60  
ACTGGTGGCA GGCCAAGTNT TTATTTACAT AGGGTGTAAAC CAAATAGGAA ACCTCTAAAG 120  
GGTACTTAAA CCCAGATTT TNTACACAGG GCACTTGCTT GAGCCTCATC CCGCTTTCTG 180  
GAATGTACTT TTGCTTCAAT AAATCTGTGC TTTTGTTCCT TCAAA 225

SEQ ID NO:7022

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08258

SEQUENCE DESCRIPTION:

GATCTGGAGG GCGTGGCTAC AGGACCCGGG ATGCCATTCA GTTACTCATC TTTNATGCTT 60  
TCGTCCTGAC CTGTCTCAAC TAGACTTGCT CCTGCAACCA CCATGGGGGT TTTGCATTTA 120  
CATTTGTGGA CCATGTTACA GTTAAGAAAA ATCCTGTTTC AGTCCTTATA TGTAATAAAA 180  
TGTTTTATGA TGTAAA 196

SEQ ID NO:7023

LENGTH:170

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08259

SEQUENCE DESCRIPTION:

GATCTNTCCT CCGCTTGAGA AGACCATGGA ACTGGATAGC TCACTTCCGG AATACAACAT 60  
GTTTCCCCGC AAAGGCCGGG GNCTCCCTAG NTCAAATTTT CAATCTCATN AGCAGGTGNT 120  
AGAAAGGTNT TGTGGTAGCA ACTNCATGAT TTCTCTGTGA CCAAAATNAN 170

SEQ ID NO:7024

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08260

SEQUENCE DESCRIPTION:

GATCAAATGT AAATNTTTTG AGGATATTTT NCTTGTTTTT NAAAATCAAT TTTTAACCAA 60

02003

ATATTAAACC CTTTATTGTC CAAA

84

SEQ ID NO:7025

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08261

SEQUENCE DESCRIPTION:

GATCCACCAC TGGNCTCTCC CTCCCCCAGC CTGGAGCACG GGAGGGGAGG TGACGGCTGG 60  
 TGACTGATGG ATGGGTAGTG GGCTGAGAAG AGGGGACTAG GAAGGGCTAT TCCAGGCTCA 120  
 GCCCTGCTAC TGCAGCTTTG CCGCTGAGTG TAGGAAAAAC AGGCATGACA GACCAGGGTG 180  
 AGGGTTGTGC CCAGCTGGGC CACGGCCATG CGTGGGGTGG CCCAATAAAC ACCGTGGACT 240  
 CCCAAA 246

SEQ ID NO:7026

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08262

SEQUENCE DESCRIPTION:

GATCAGTCTT TATNAATAAA ACCTGTTCTC TTTAATCAGC TTAAA

45

SEQ ID NO:7027

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08263

SEQUENCE DESCRIPTION:

GATCAGACTG NTAACCTTAA CACCATAGGT GCAAAAANGAG TTGTTCTNAG GTTTTTTTGA 60  
 AACATTAAAG TTCCAAAACA TGACATTTTT AAGAATAAAT TTGAAATAGN GTATGATTGA 120  
 ATGCAGAGNA TTATGTACCT CTAATTGCTT AATTTTGTAG NGGTCTTNA TTGTAGAATT 180  
 GGNNCN 186

SEQ ID NO:7028

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08264

SEQUENCE DESCRIPTION:

GATCTCTTGG TAACAATTGA CATTGCACTA GNATTTGAAT GNTACTGTTG TTGGCATTTC 60  
 TGTANTCTT TCAAGTAGTT GTAAATAATC TCTTTTCTC ATATAACGG AATGCATAAT 120  
 GTCTTACTCT TGAGTCATTT AGTAGCATTG ATATGGTACC AAGTTGTATA GCAGTGTAAC 180  
 AAAATCATGC TTTGACAATG NAATTTACAT ATTGCCTCAC CTAGAGATGT TTTGTCTGTA 240  
 TGACTNNTNN CNTNTAAAG TTNGNCNAAC N 271

2153480

SEQ ID NO:7029

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08265

SEQUENCE DESCRIPTION:

GATCAAATCA GGGTAATTGG GTATCCATCA CCTCAAACAT TTACCATTTC TTTGTGTTGG 60  
GAACATTCCA TATCTTTTTT TCTAGCTGTT CTGAAATTG CTATACGTTT TTTAACTAA 120  
AGGTCCCTTG CTGTGTTATG GAACACTGGA ATTTGTTCTT TCTGTTTAA TGTATTTTGG 180  
TACCTATTAA CCAACTTCTC TTTATCCTCC CCCGTCCTCT ACCCTTCCCC AGCCTGTGGG 240  
AATCACCCAT NCTACTCTCT GCCTTTATGA GATTACTTN TTTNATCTCC CNATATAANA 300  
N 301

SEQ ID NO:7030

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08266

SEQUENCE DESCRIPTION:

GATCGTAGAA ACACAGAATG GGACTGGGGA AGCCCTTTGG AAATCCAGCT GCAGAAACAG 60  
ACACCCCAAT GCTATTTACA TACAGCTCTA TATATATAAA AAAAGNAAAT ATGNAAA 117

SEQ ID NO:7031

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08267

SEQUENCE DESCRIPTION:

GATCTCACCA GGGCCCAGTC ATATATGCAC AGTTAGACCA CTCCGGCGGA CATCACAGTG 60  
ACAAGATTAA CAAGTCAGAG TCTGTGGTGT ATGCGGATAT CCGAAAGANT TAAGNGAATA 120  
CCTAGAACAT ATCCTCAGCA AGAAACAAAA CCAAAGTGA CTCTCGTGCA GAAAATGTAG 180  
CCCNATACCA CATGTAGCCT TGGNGACCCA GGCAAGGACA AGTACACGTG TACTCACAGA 240  
GGGAGNGNAA GNTGTGTACA AAGGNTATGT ATAANTNTTC TTTTAGTCA TCCTATN 297

SEQ ID NO:7032

LENGTH:58

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08268

SEQUENCE DESCRIPTION:

GATCCTGGGG ACTCATATTC TTTCAGAATC ATGTAAATAA ATGGCATCAT GTTGTAAT 58

SEQ ID NO:7033

LENGTH:103

TYPE:nucleic acid

02005



2153480

TOPOLOGY:linear

CLONE:HUMGS08269

SEQUENCE DESCRIPTION:

GATCTATTG GCCTCTCAA TNAACTNAGA TTCCTGTTAA AAAAGATTGA TGTATTGTC 60  
TCTTGTAGAG GAAACTAATA AAGTGTGTGT ACCTNTGTGN AAA 103

SEQ ID NO:7034

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08270

SEQUENCE DESCRIPTION:

GATCAAGAGT NATGGGCCTT GGAGCCCTTG CCAGCCCAGC CCACCTGTNA GGAGGCTGCC 60  
CATCCCCTCT TTNAGGCCAC CCTGTGTCCT CTCCCCTGCC TCTGCCCAGA GCTCCAGCCG 120  
GAGTGTCTTG CTGCTCAGAC CCCTCCGAGG TCCAAGTCCT GTCCTGCCAC TCAGTCCCN 180  
CTGCACCCCA GAAGAAACGC AGGGTGCGGT TGCATTGAT TTCAGATAAA CAACAACCTC 240  
TTAGTAAAT NACCTNCCCA CTAAT 265

SEQ ID NO:7035

LENGTH:46

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08271

SEQUENCE DESCRIPTION:

GATCAATCTT GANGTGAAAT ATTTCAAAA TAAAATTCTA CAGAAA 46

SEQ ID NO:7036

LENGTH:254

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08272

SEQUENCE DESCRIPTION:

GATCTTTGCA TAGAATGTCA AGCTAACCAG GCGTCCGNTA CTTCAGAAGA GTGTACTGTC 60  
GCATGGGGAG TCTGTAACCA TGCTTTTAC TTCCACTGCA TCTCTCGCTG GCTCAAAACA 120  
CGACAGGTGT GTCCATTGGA CACAGAGAG TGGGAATTCC AAAAGTATGG GCACTAGGAA 180  
AAGNCTTCTT CCATCAGGNG TTAATTGTTT TGTTATTCAT TTAATGGCTT TCCCTGCTGT 240  
TACCTAATTA CATN 254

SEQ ID NO:7037

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08273

SEQUENCE DESCRIPTION:

GATCATTGAG AAAGTGTGTT AAACCTTCTC ATGAAGTGTA TATATAATGG CGTGAAAAAT 60

02006

2153480

TCCTTTGGAA AAATNTATGT NCCTTTCATT TTGCCCAAAT TGCAAATTTT CAGCATGGNT 120  
GTGAAAAGCA TTTAAATTAT AACTTTGTGT ACANGATGAA AATAATTCAC TAAATTGCC 180  
CTTTTTTACA CAAAATAAAA TGTTAANGTT ANNGCTGGNA AA 222

SEQ ID NO:7038

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08274

SEQUENCE DESCRIPTION:

GATCAAATGA CANTAAATCA TTCAAAATCA AA

32

SEQ ID NO:7039

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08275

SEQUENCE DESCRIPTION:

GATCACCCAG GTACANCATG CTCTATATCC ATGCGGCCCT AGAAACCCAA GGAACATATA 60  
CAACCACTCT TGTGTCCCTC CTTATAACCN CAGNTTATN CNAGAAGTN 109

SEQ ID NO:7040

LENGTH:301

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08276

SEQUENCE DESCRIPTION:

GATCACAAAT TGGTGCAATC TTAACGTGG ATAATTATGT ATGAAGCCAA ATTGTAATAA 60  
AACTGTTATT TGCCAAACAT AGAANCCTTG CTTCTGACT AGGCTGAGCC CAGAGTGTTA 120  
TTCTCTTCTT CTGCCTGTNA TGTATCTGGG CAATTTGTAG GGCCTTTGCA GGTGAATCCA 180  
GTAGAGAACC ATGCTAAGAN TGNCAGCAG TCATGCATGC CTGTATCATT GAAAGCCTTC 240  
CTNGCCATTT TNCAGCTTC ACCTTNCGTG GTTTTTATTT TTTCCAGAGG GGGCCTGGGG 300  
N 301

SEQ ID NO:7041

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08277

SEQUENCE DESCRIPTION:

GATCCTCCTC CTAAGCGCT TATCTTGGTG CTTCCAGCTC AGTCTGGCCA ATTCCACCTC 60  
TATGAGATAA GGAGGGTTCA GAGAACCAG TCACTTGCT GTTTTCTGC NCACAGAGTT 120  
TCTCTAATAA ATCTTATTCT ATGTCTACAA A 151

SEQ ID NO:7042

02007

2153480

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08278

SEQUENCE DESCRIPTION:

GATCACATTG TTTGACCCAG TATGTCTTGT AGACACGTTA GTTATAATCA CCTTGTATCT 60  
CTAAATATGG TGTGATATGA ACCAGTCCAT TCACATTGGA AAAACTGATG GTTTTAAATA 120  
ANCTAATTCA CTAATAAA 138

SEQ ID NO:7043

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08279

SEQUENCE DESCRIPTION:

GATCTGTCAA CAGGTTAAGT CAATCTGGGG CTTCCACTGC CTGCATTCCA GTCCCCAGAG 60  
CTTGGTGGTC CCGAAACGGG AAGTNCATAT TGGGGCATGG TGGCCTCCGT GAGCAAATNG 120  
TGTCTTGGGC AATCTNAGGC CAGGNCAGAT GTTGCCCCAC CCACTGGAGA TGGTGCTGAG 180  
GGAGGTGGGT GGGGCCTTCT GGGAAAGGTGA GTGGAGAGGG GCACCTGCCC CCCGCCCTCC 240  
CCATCCCCTA CTCCCCTGN TCAGCGCGGG NCATTANAAG GGTGCCANAN ATTTTTTTNN 300

SEQ ID NO:7044

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08280

SEQUENCE DESCRIPTION:

GATCTCATTC CATGGGAAAA AAAAAATCC TGTCTTGTTT ATAAATTGAC AATGTCTACTA 60  
AATAGAAATA AAGTGCACAN TAAATGNAAA 90

SEQ ID NO:7045

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08281

SEQUENCE DESCRIPTION:

GATCTNAGTT AGACATCACC ANTGGAAATC GATTGGAATA GAAACTTAAA GGAAATGGAA 60  
CCCTGACTAT TCTCCCATCA AATCATATAT GTTGACCTGT CTGAATTATA AACCAGCCTG 120  
ACCTTTCCTT TAGCATTAGA TGTAATAAAA TAACTTTGGA AATTGTGNAT TAAA 175

SEQ ID NO:7046

LENGTH:190

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08282

02008

2153480

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCAGT TAGCTGGCAG GTTGTNCAGC TTTAATTCC AGTCATAATA 60  
GGTGACAGTG TTAACCGTGA AANTTTGNGA GGCACNTTTG NCCTCTTCCC TATAAAAATC 120  
ACACAAGCGT GNTTTTACAA AGGGTCCCCG TGGGAACCTT NGCTTAAGGA CCCTTTGNCC 180  
CNTCAGTTAN 190

SEQ ID NO:7047

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08283

SEQUENCE DESCRIPTION:

GATCCTCAGG ACTGACCANT TAAGCTGGCA GGTGTGCCA GCTTTTAAAT CCCAGTCATA 60  
ATAAGGTGAC CAGTTTAAAC CCGTGNAAC TTNGAGGGGA CTTTGCCTT TTCCCTATNA 120  
AATNACACNG GGGGGTTTAA NAAGGTN 147

SEQ ID NO:7048

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08284

SEQUENCE DESCRIPTION:

GATCCATCTG CCCTCATAAA AGTGTTTCAGG TACAGCAGCT GAGGCTGCCC TGAGNAATCA 60  
AGGGGCCATT ACCAAGGGGC AGGAAAAGNA TATGTAAGAG GTGGCCTTCA TGGTAGAGCT 120  
TGACCCAAGA ACTACTCCAN ATTCGGATGG CCCAGACTGG GNGCATCCCC TGACTTTCCC 180  
TTTGACTTCA CCCTGTTTGT AAATAAANCA AGGNAGATGC AAA 223

SEQ ID NO:7049

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08285

SEQUENCE DESCRIPTION:

GATCTCTCC CTNGTTTAAA TGTCAATAAA TGCCCCAACT GCTTTGTAAG TGCAAA 56

SEQ ID NO:7050

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08286

SEQUENCE DESCRIPTION:

GATCACCTTA AAATTATTTN ACGNACTGNA GNCAATNAAG TCCGTTATGT TTAGAGTAGA 60  
AAATGTTTAG GTTAAAGAGC ATCTGTCAAC AGAATCTACA AAAAAGN 107

SEQ ID NO:7051

02009

2153480

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08287

SEQUENCE DESCRIPTION:

GATCCAATTN CATNNGCGGC TGCATCTNCT GCTCATGCCG CCCAAACACC ACCCAGATGT 60  
CACTTACGTC AAGAAGGTCC GGACCCTCCG TATGCACCTG TTCACGGCCC TGCAGCTGCT 120  
NTGNN 125

SEQ ID NO:7052

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08288

SEQUENCE DESCRIPTION:

GATCCAAGAA ACGNANGACA CAACAACAAC GATGCCGTGT GTCTGCTCTA CCTGGGCAAG 60  
CTCAAGNACT CCCTGCGGCA GCTNGAGGCC ATGGTCCAGC AGGACCCCAG GCACTACCTG 120  
CACGAGAGCG TGCTCTTCAA CCTGACCACC ATGTACGAGC TGGAGTCCTC ACGGNGCATG 180  
CAGAAGAAAC AGGCCCTGCT GGNGGCTGTC GNCGGCAAGG NGGGGGCCAG CTTTAACACA 240  
CAGTGCCTCA AGCTGGCCTA GCTGNNTNNN ACACAN 276

SEQ ID NO:7053

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08289

SEQUENCE DESCRIPTION:

GATCGAGTTT ACAGTTGTGN NNTCTGAAG GTATTACTTA ACTTCACTAC AGCTTGTCTA 60  
GAAGACCTTT CTAGGNGTTA TCTGGTTCTA GAAGGGTCTA TACTTGTCTT TGTCTTTAAG 120  
CTATTTGACA ACTCTACGNG TTGTAGNAAA CTGCTAATAA TACAAATNCT TGTTGTCCAT 180  
GGNAAGGCAA ATAAATTNC TACAGTGNN 209

SEQ ID NO:7054

LENGTH:126

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08290

SEQUENCE DESCRIPTION:

GATCTCATTT TCAGTTTAAG TAACTGCTGT TACTTAAGTG ATTACACTTT TGCTCAAATT 60  
GAAGCTTAAT GGAATTATNG CCCTCAGGAT AGTATTTTGT AAATAAAGNT GATTAAATA 120  
TGNAAA 126

SEQ ID NO:7055

LENGTH:276

TYPE:nucleic acid

02010

2153480

TOPOLOGY:linear

CLONE:HUMGS08291

SEQUENCE DESCRIPTION:

GATCGCACCA TTGCACTCCC ACCTGGGCAA CAAAGAGTGA AACTTGGTCT CAGAAACGAA 60  
ACAAAACACA AAAACCTTTC TNAGTCCCAG CATATGTGGA GCAGCCTCAT TCTTCATAGC 120  
TGTGTGTCAT TCCGTTGCGT GATGGGGTCA CAGAGCACAG ACCTGGTGCC CTTTTCCTTT 180  
TTAATATGTG GAAACCCCTC CATGCTTTCC AAAGCCTACA AGTACAGCAG CCCCNAGTTT 240  
AGGGTGNGCA GCAGTGGTCA GAGCTCTTN CTANTN 276

SEQ ID NO:7056

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08292

SEQUENCE DESCRIPTION:

GATCTCCAGG AGTCCCCTGC ACATACCTTC TCCATCGTGT CAGCTGTGTT TCTCTTGATT 60  
CCGTGACACC CGGTTTATTA GTTCAAAAGT GTGACACCTT TTCTGGGCAA GGAACAGCCC 120  
CTTTAAGGAG CAAATCACTT CTGNNNNAGT TATTATGGTA ATATGAGGCA ATCTGATTAG 180  
CTTCACAGAC TGAGTCTCCA CAACACCAAA ATATCCAGAT GTAAACCCCA AACTTGTACA 240  
CAAANGNAAG CACAGATTGT TTACCTGTTG TGGAGN 276

SEQ ID NO:7057

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08293

SEQUENCE DESCRIPTION:

GATCCCTGTT ACCCAGAGAA TANNTACATT CTTTATCTTG ACATTCAAGG CATTCTATC 60  
ACATATTTGA TAGTTGGTGT TCAAAAAAAC ACTAGTTTGT TGCCAGCCGT GATGCTCAGG 120  
CTTGAAATGC ATTATTNNGA ATGTGAAGTA AATACTGTAC CTTTAAA 167

SEQ ID NO:7058

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08294

SEQUENCE DESCRIPTION:

GATCACATAC CCTTCTTTTA AGTGAATTTT TTTCATTGGA TTTGTCAATA AACGAATCAA 60  
ACTGGNAAA 69

SEQ ID NO:7059

LENGTH:222

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08295

02011

2153480

SEQUENCE DESCRIPTION:

GATCTCCCTG CCTGGGCTGG CTGTGAGGCC ACCTTTGTCC CAGGCCCAGC CTC AAGGCAA 60  
GGAGGGCGCT TCACTGAGGT GTGAATTGTA CGTACAGGCT TTTTATATAC CAAAAGTATT 120  
TTTTGACTAG ACCATTCAAA GCTACCCGAA CTATGTTGGA AATTTTTTTT TTCTCATTAA 180  
AATACAGGCC CTTAGGCTCT ATTTTAAATG TATNAGTCGC AN 222

SEQ ID NO:7060

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08296

SEQUENCE DESCRIPTION:

GATCAAAATA CCTGTTTATA TATCTGTTAT TTAAAGAAAA ATTTCCACA GTGTTTTGTT 60  
ATTTCCAGC GTTCTTAGN ACATTGGGN ATTNCACTAA AATATAGCTG GGTGGATTGA 120  
AGTAAAGGGC AANTGCGTTT GCAAA 145

SEQ ID NO:7061

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08297

SEQUENCE DESCRIPTION:

GATCTTCCAA AACACACAAA 20

SEQ ID NO:7062

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08298

SEQUENCE DESCRIPTION:

GATCAATCAA GAATAATTTT AATTTTCTTT TGTATTTGAA ATGTAAATAG TTTTCTTTTC 60  
GATTAACAAA ATTTCTATA ACTGCTAAAC AGTTAAANNC TTAAAGTAG TAAATGAGTT 120  
TATAGAAAGC ATGTATTCTT GATTTTNGTG CCTTGGTAAA GTTGATAACT ATTTATGAAT 180  
ATTTGACCAA ATTATTCCAG CATCAGAATA ATAAGCAAAA TAACNN 227

SEQ ID NO:7063

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08299

SEQUENCE DESCRIPTION:

GATCACACCA CTGCATGCCA GCCTGGGCGA CAGAGTGAGA CCCTGTCTCA GAAAAGAAAA 60  
AAAAAGTAAA AATTGCATGT AAGTTGACCC GCACTATTCA AATTTGTGGT GTTCAAGGTT 120  
CAACTGTAAT TTCTAGCAG CATTTTGTGT GTTGAGAAT CTCTTGACAC TCTTCAAGTA 180  
AATCCCTAAA TTACAACTTT GACATCAAA 209

02012

2153480

SEQ ID NO:7064

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08300

SEQUENCE DESCRIPTION:

GATCGACTGA GCTCAAATTT CAGTTGGGGC CCTATTAGTC TGCCTTTCCA AAAAGGGCGT 60  
TGGGACTTTA ATTTAAACT TAACCAGTTG AAAAATAAG GTGGCGTGA AATGCTTTT 120  
GATTTGCAAA 130

SEQ ID NO:7065

LENGTH:223

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08301

SEQUENCE DESCRIPTION:

GATCTGGGCT TTAAAGCAGA GGCCATGTCC TTGTCTGGTC CTGCTTNTGG CTACAGCCAC 60  
CCTGGAACGG AGAAGGCAGC TGACGGGGAT TGCCTTCCTC AGCCGCAGCA GCACCTGGGG 120  
CTCCAGCTGC TGGAATCCTA CCATCCCAGG AGGCAGGNAC AGCCAGGNNG AGGGGAGGAG 180  
TGGGCAGTGA AGATGAAGCC CCATGCTCAG TCCCCTCCNA TNN 223

SEQ ID NO:7066

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08302

SEQUENCE DESCRIPTION:

GATCGGAGAC ATCCTGCTGT TCGGNACGTT GCTGATGAAT GCCGNGGCGG TGCTGAACTT 60  
TAAGCTGAAA AAGAAGGACA CGCAGGGCTT TGGGGAGGAG TCCAGGGAGC CCAGCACAGG 120  
TGACAACATC CGGGAATTCT TGCTGAGCCT CAGATACTTT CGAATCTTCA TCGCCCTGTG 180  
GNACATCTTC ATGATGTTCT NCATGATTGT NCTGTTCCGC TCTTGAATCC CAGCGATGAA 240  
ACCAGGAACT CACTTTCCAN 260

SEQ ID NO:7067

LENGTH:154

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08303

SEQUENCE DESCRIPTION:

GATCGAAAGA AGNACATCAT GAAAAATAAA TGAACTTTGC TTAGTGGATT GACTCCTTTG 60  
CTGAAGTCAG TTATTCATCA AGAATGCAAT TAGNCTAATT GTGAATAAAT GATTGNNTGA 120  
AGNTATAATA AATAAACCG TAAACTCTGG CAAA 154

SEQ ID NO:7068

02013



2153480

LENGTH:29

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08304

SEQUENCE DESCRIPTION:

GATCAATAAA ATGTGATTTT NCTGATAAA

29

SEQ ID NO:7069

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08305

SEQUENCE DESCRIPTION:

GATCGTCCCA TCACAGTGGT GTTAATGTTT GCTGTATTTA TTAATTNCT TAAAGTGAAA 60  
TCTGAAAAAT GAAA 74

SEQ ID NO:7070

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08306

SEQUENCE DESCRIPTION:

GATCTGGCTT CACAGACAGT TGACACATCT AAAAGAATCT TTGTTTCAA CTGGACTGAC 60  
TCATTGAGAG GAAACCTTCA CTGCACCTCA CCAGTGCAGA CAGAAGACCT GGAGGCAGGA 120  
CGGGAGGCAT TTTATACTTC AGCACGATAT GGGCCCTGAC TTTTCATTTT CTACATGGAG 180  
ACATATTGCT GGAGGCTCAT CATCCTGAGG GGAGAAACAT GGATTTTCATG GTTTTGCCAT 240  
AAAAGTATGC ACAAAGAGT TCCN 264

SEQ ID NO:7071

LENGTH:27

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08307

SEQUENCE DESCRIPTION:

GATCANTAAA AAAAATAAAT AATTAAA

27

SEQ ID NO:7072

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08308

SEQUENCE DESCRIPTION:

GATCTNTTTT NTCTGGAGTC CTGGAGTTNC TTTCCTAAGG TTAAATATAA GCAAGCNCCA 60  
GAAAGAATGC TGACAGAAAA GGGACCCTAG CTGTGGTAGG AAGTGGCCCT CAGAGTCAAG 120  
GAGGCAGGAT GANTTTAAAT NCTNCATGTA GGGCATATTT TGGGGAGTNA TGGGN 175

02014

SEQ ID NO:7073

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08309

SEQUENCE DESCRIPTION:

GATCGACTTT AAGTTGCTTC GGGTCTAGTA GAAATCCGGT TATTCCAAG CCTGTNAAAT 60  
 GTGAAGTTCA AGAAAATTGA ATCCGTGTAT AGCAAAACCA TTTTNTCTCA CAATTTTTTA 120  
 ACCAATGAAC ATTGTGTGGG AAATTNATTC CATATGTTTT CAAGTCATTT ATGCAACTTG 180  
 AATAATTAAA ATATTCATTG GTAAGAGCTG CCTGATGTCT TTAAAGTCAG GAAATTGTCT 240  
 TATGCCAAAA GTAGACAANC TCAAACACCA AAAGGTCANN N 281

SEQ ID NO:7074

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08310

SEQUENCE DESCRIPTION:

GATCATTTTT CTTGGAGGNT GGAGATTGGC TAGTACCTCT GGCCTAACTG TGTAGGTCAA 60  
 TACTCTTTTA CATTGCCTTC TAATAAAAGC AGNATGATNC AGCAAA 106

SEQ ID NO:7075

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08311

SEQUENCE DESCRIPTION:

GATCTTGTGT CTGTTGTGCC TGAATTTGGC GTGTCTAATA AAGGCCCATG CACACTATAG 60  
 GCACTCAAA 69

SEQ ID NO:7076

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08312

SEQUENCE DESCRIPTION:

GATCAGTGAA ATNTTAACT CCCACGGTAA CATCATGCCT ATGGACATTA AAGGAATAGC 60  
 AAGGACTTGC TCCCACGACT TCACATTTGC TCCCCTGGC CAGGAATGTG GGCTCTTAGT 120  
 GATTCCAGAT AAGGGCAAAG CTGGGGCCCA ATGTATGTAG CCAAATTGNA GNAATCATGG 180  
 NGCACAGGCA AATGGTGACA TGAATTTGTA ANCTGTGTTT ATGTGTTNTT ATATTTATAT 240  
 TTCTGANCTC AGTACATGTT AATATTTAAN TAATTATGCA GTAACCTTCA AA 292

SEQ ID NO:7077

LENGTH:29

TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS08313  
 SEQUENCE DESCRIPTION:  
 GATCCTGCAC TCTAGCACAT GACTCCAAA

29

SEQ ID NO:7078  
 LENGTH:334  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS08314  
 SEQUENCE DESCRIPTION:  
 GATCCCCTGT CCCCTGGGGC TGGTGGATAG GGCAGAATCC TGGGCCCCCA GAGACCTTTG 60  
 CCCACACACA CTCCTTCCCC TTGTCCCTGG GGNACTCCCC CAGGATTGTG CAATAGTCAG 120  
 AGTGTCCCTT TTTGCAGGGG ACTGGGCCAT GGGTCCTAGG CCCATCTGTC CATCCTCCTC 180  
 TCCATGCAAG TGCTGTTTGG GCAGNAGTCA CCATGCAAGG GTGNCATCGN CANCCACGTA 240  
 CCAAGNCACC GCAGCTGCTG CCACTCTGCT GCCTGTACAG AAGGAANCTG NATCTTTTNN 300  
 ATATTCTAAT AAAATNACTG TGGGNTTTNA NAAA 334

SEQ ID NO:7079  
 LENGTH:245  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS08315  
 SEQUENCE DESCRIPTION:  
 GATCCCGTAA ATTGAAGGCA ACAAGGTCTT GGTCTNCAG TAAGGGGGGC ATGGAGCCCT 60  
 GGTGGGAAGG AAAGAAGNGA AATTGTGTT CCTGATTCCT TAATCCCCAN GAAAGGTCCC 120  
 TCTGTAACA TTCACATATC TTTCTAGC CAAAGTCTGT CCATTTNAAC CCTNTAGCAT 180  
 CTGAGCTATC TGCATCCAGN TTTCAAANAT ATTCGNTGT TTAATAACAT GTNTGTNAGC 240  
 CTNTN 245

SEQ ID NO:7080  
 LENGTH:88  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS08316  
 SEQUENCE DESCRIPTION:  
 GATCACAAAT NACTTGTGA AATGTAAGGC AGTCCCCCTC CTCCTCTTTA TCTACATTAC 60  
 TTCCCGAAAA TAAATGCANA TTAATAAA 88

SEQ ID NO:7081  
 LENGTH:149  
 TYPE:nucleic acid  
 TOPOLOGY:linear  
 CLONE:HUMGS08317

2153480

SEQUENCE DESCRIPTION:

GATCAGGTCA CAGTGTGTAC GTAAGAGTCA GCTNCTTATG GNTATTGTCA TCTAGGTAAC 60  
TTTGTA AAAA AACAAACAAA ACTGGCATTG TTAATTCCAA AAAGAAAAAA AAAAGCAGTA 120  
AAAANAAAANG GNCATTTGNA CCNCCGGCN 149

SEQ ID NO:7082

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08318

SEQUENCE DESCRIPTION:

GATCTCAGCC TCGGGTGGTC AGGGTGGGAA ATGATAGGAA GAAGCTGTCA TCTGCATCCT 60  
AGTTTGCCTG AAATGAACCC AAATAATACC CATTATTATT AGTCCTGAAT TATGAGTAGT 120  
GAATGATACC CATCATTCTG GCATCATGAT GAGTAGTGTC CACTTCCATT CTGAAAAGTG 180  
CCCTGCTGTG AAAAATAAAT TATATAGTCC TCCTAGGTAA ATGAAGGAGG AGGGAGAAGT 240  
GTGAAAGAGT ATGGCTTAAA TCAGACAAGA TATACAAGAA GATACTTTAT ATAGGGCAGG 300  
AGCGGTGGCT TN 312

SEQ ID NO:7083

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08319

SEQUENCE DESCRIPTION:

GATCTGGGAA ACTGATTGAA TAATACACTT TTCTTGCTTT GGTGCTCAAA GTGGTTTTTT 60  
TCCCCCAATA AAATTATTTA ATTGAAA 87

SEQ ID NO:7084

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08320

SEQUENCE DESCRIPTION:

GATCAGGAAA TGCATCTNCG CAGATGGTAT TTCCTTCAGA AAAGACTTTN CTACTTTAAA 60  
TATAAATNAN GCCATAACAG TTTCATGCTG TGGAAAGAGG GTGAAAAGGT TCATTTTAAG 120  
AGATTATATA ATANGACCTT NCACATTTCC TGTGAAATGT CTAACTTTNC CAGTNCTTCA 180  
GCAAGTTTTT TTGGGGGGTG ATGGGGAGNN GGTAGTATTG GTTTTAGAGG TTTCAAATCT 240  
GTGANCTTTG GAGAGGGGAC AGTTGTTGGC TCTGGTATTT CCTAGTTTTG TAGTAACGTT 300  
TTGCTAGCCN NN 312

SEQ ID NO:7085

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08321

02017

2153480

SEQUENCE DESCRIPTION:

GATCTGATGG TTTTAAAAAG GGGTGTCTCC CTGCACAAAC TCATTCTCTG TTTGCCTACC 60  
GCCATCCGCT TAAGATGTGA CCTGCTCCTC CTTGCCTTCC GCCGCGATTG TNAGGCCTCC 120  
TCAGCTATGT GGAAGTGTAA ATCGAATTAA ACCTCTTTCT TTTGTAAA 168

SEQ ID NO:7086

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08322

SEQUENCE DESCRIPTION:

GATCCATGTG TTTTACTCTA AAGTGCTAAA TATGGGAGTT TCCTTTTTTT ACTCTTTGTC 60  
ACTGATGACA CAACAGAAAA GAAACTGTAG ACCTTGGGAC AATCAACATT TAAATAAACT 120  
TTATAATTAT TTTTCAAAC TTAAA 146

SEQ ID NO:7087

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08323

SEQUENCE DESCRIPTION:

GATCAATAAA GCTGTCTAC ACTTGTGCTA GGNAGGCACC GCTGTGACTG GGCTCCGGGC 60  
CTTTCCACTA CGTTGAAGAA GAAAACCTAT TTTTAAATGT AAATAAAATA TCTGGTAGCC 120  
TGTGTGGAAA GCTGACCGTT TTAAGAAGTG GCATGTGCCT TGAAAGGGGG CAGAATGTTT 180  
AGTCGGTCGT GTTTTAAACA CAGAGTCTCT AGAAGAGGTG CAGACATCCC GTCTGACTGT 240  
CCCTGTGGAC TCTCTCAGTT GTATGTTGCT ATAATCCTCC AAATCAAAGC TCTTTCTGCT 300  
TGTGCAAGAT TNNN 314

SEQ ID NO:7088

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08324

SEQUENCE DESCRIPTION:

GATCTTACTG AATTATTTT GTAAATGCCT AATGAGGCAG ATTTTGAAT TAAAGAAATG 60  
CTACATGTAA A 71

SEQ ID NO:7089

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08325

SEQUENCE DESCRIPTION:

GATCTAACA TATCAGGACA TGGACTCAGG ACCTGCCCCG TGATGCTGTT GATTTCTCAA 60  
AGGTCTTCCA AACTCAACA GAGCCAGAAG TAGCCGCCCG CTCAGCGGCT CAGGTGCCAG 120

02018

2153480

CTCTGTTCTG ATTCACCAGG GGTCCGTCAG TAGTCATTGC CACCCGCGGG GCACCTCCCT 180  
 GGCCACACGC CTGTTCCCAG CAAGTGCTGA AACTCACTAG ACCGTCTGCC TGTTTCGAAA 240  
 TGGGGAAAGC GTGCGTGCGC GTTATTTATT TAAGTGCGCC TGTGTGCGCG GGTGTGGGAG 300  
 CACACTTTGC AAAGCCACAG CGTTTCTGGT TTTGGGTGTA CAGTCTTTGT GTGCCTGGCG 360  
 AGAAGAATAT TTTCTATTN TTTTAAGTCA TTTCATGGTT TCCTGGTCCT GN 412

SEQ ID NO:7090

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08326

SEQUENCE DESCRIPTION:

GATCTATTTT TGGCTTATGT CTTTAAATAC TACTCTCTTT CTCTGAATTT TGAAATATGA 60  
 AGTAAAATCT AGCCCATTTG TTTTATGCAA A 91

SEQ ID NO:7091

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08327

SEQUENCE DESCRIPTION:

GATCTCAAGA GTTCAAGACC AGCCTGGGCA ATATGGTGAA ACCCGTTTGT ATTAAAAATA 60  
 CAAAAATTAG CTGTGCATGG TGGCCACGG CTGTAATCCC AGCTACTCAG GAAGCTGAGG 120  
 TCCGAGAATC ACTTGAATGC TTGAACTCGG GAGGCAGAAG TTGCTGTGAG CCGAGATGGC 180  
 ATCACTGCGC TCCAGCCTGG GCAACAGAGA GAGACTGTCT CCACTGTCTC CAAAAAAAAA 240  
 NGAIAAAAAA AAGGTTGTTN GATTCNTGGC CCTCAAGGAA ATTNTGAAA ANAN 294

SEQ ID NO:7092

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08328

SEQUENCE DESCRIPTION:

GATCATGTTT TGAAGCAGCA GGTCCAGGTC ACTTTGTATA TAGAATTTTG CTGTATTCAA 60  
 TAAATCTGTT TGGAGGAAA 79

SEQ ID NO:7093

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08329

SEQUENCE DESCRIPTION:

GATCTTTCCC TAGAGAATGT AACATACGTT TTTATTCATT TAATCACTTC ATTATGCCGG 60  
 GGTAAATNAT GTTTATTTTA TAATTGGTAA TAAAGGCCAC ATTTATTTTT GTAACGTGTA 120  
 AA 122

02019

SEQ ID NO:7094

LENGTH:50

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08330

SEQUENCE DESCRIPTION:

GATCTTAAAC TCTTTGATTA AAAATAATAA ATGGAAATGT GTTAAGCAAA

50

SEQ ID NO:7095

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08331

SEQUENCE DESCRIPTION:

GATCCAGGGA TTTGGGAAA AGGAAGGAAT TTGATGTTTT TTGGGGTGGG AGGGGAGGGT 60  
GTGTTTTTA CACCAA 77

SEQ ID NO:7096

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08332

SEQUENCE DESCRIPTION:

GATCGCTGGC CTTCTGACT TAACATTNAT GCATGCCAAG GTGTTGATGT TCCCAGCCAC 60  
GTAAACACCT TCCACAAGNT CTCAGAAAA AGCAGACGGA TAACTGATGT GAATTGGACA 120  
GTTTCTATTG CTTTTCCTTT TTTCCATCCC TTCCCTACCA TCAAAAGCAT ACCTGCTCTA 180  
ATTAAA 186

SEQ ID NO:7097

LENGTH:291

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08333

SEQUENCE DESCRIPTION:

GATCATATAC TCTGCTGTGG TCATGCCCAC TCTTTGGGAG TATATCCCT TTATATATAT 60  
TGAGTATTGT ACCACTTGAG AAATTCCTTT GTTCTGTTAT ACAAAATTAA TCTTCTGCT 120  
CATAATGATT GATGATACCA CCAGTAAAA TAGGATGTTT ACCCCAAAAC AAGTGTCAAT 180  
TAAGAATTG AACACAACCA CATTTTTTAA AATGAACTT CTATCGGAAG TAAATTAATT 240  
TGNGGTAATA AAGTCCAGTA TTNGGNAAA TGTACAATGT TAAATCTCAA A 291

SEQ ID NO:7098

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

2153480

CLONE:HUMGS08334

SEQUENCE DESCRIPTION:

GATCAGACTT TTGNTCTTG GGTCCCAGAT GGCACAGGAG CACTGCATGC TTGTTTCTA 60  
GAGCCCAGCC AGTCATGGGT GCTAGCCTAG TCTCCACACA CCAGCAAGTA GAACCCAAGT 120  
GTANNNNNAT AAATATTTCC TGAGTACCAG TAAGAGAATG CATTCTTTTC TCATCTAGGC 180  
CAGGAATGTT GAAAATGCTC AGCCTTACAT AGAAACTCCT AGATTTTCAC TAACGCATTT 240  
CACAAAAGTA AATAAGTATT TCATATAATT CAGAGGATGT TTAAATTGTC AGCATTTTAA 300  
TAAATAN 307

SEQ ID NO:7099

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08335

SEQUENCE DESCRIPTION:

GATCTGTACT TTGAACAAAG AAAGTGTGTA GAGACCCCTG GGAGTGAGGG GTAGGGGATA 60  
CAATACTCTG AAGCAGAAGA GGACCCTTGC AGTGATGGTT AGGGACTCTT CTGAGTAGGA 120  
GACGTAATCG GCTTTTGGTC CATGGAACCT TTACCACATG TATTCAGCAT ATATACACGA 180  
TTAAAGTGCT GCAAATAAA 199

SEQ ID NO:7100

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08336

SEQUENCE DESCRIPTION:

GATCTGGGAG TGGCTTCCTA ACGGAAATGG AACAGGATTA CCAACTAGTN GACGAAAGTA 60  
ATGCTTTTCCA TGACAACCTT AGGTCTCTTG ACAGNAATCT GCCCTCAGAC AGCCAGGACT 120  
TGGGTCAACA TGGATTAGAA GAGGATTNA TGTTATAAAA GAGGATTTTC CCACCTTGAC 180  
ACCAGGCAAT GTAGTTAGCA TATTTANNGT ACCATGGTTA TATGATTAAT CTTGGGACAA 240  
AGAATTTNAT AGAAATTTT AAACATCTGA AAAAGAAGCT TAAGTTTAT CATCCTN 297

SEQ ID NO:7101

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08337

SEQUENCE DESCRIPTION:

GATCTTTGTC TGTGAAGAAG AAAATTATCT CCCTAGTTCA ATCTGTAGTG AAATAAGGCT 60  
ACAGAAGGCA TTGTTTTTTC CTTTTNATT TTTTGTATTA TATATTNCC TTAAATATGT 120  
TTTATTGTCT TCTCTANGCA AAAAGTTCTT AATAANCATA GTATTCTCT CTGCGTCCTA 180  
TTTCATTAGT GAAGACATAG TTCACCTAAA ATGGCATCCT GCTCTGAATC TAGNCTTTT 240  
AGAAATGGCA TATGGTTTTG ATGATATGNC CACCATCCAA AATGTCCGAN TNAATN 296

SEQ ID NO:7102

02021



LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08338

SEQUENCE DESCRIPTION:

GATCAACTTT AAGAAGATTT ACAAAACGCT CAAGAAAGAN GAGGATATCC NACTNTTCCC 60  
CGTGCGAGACA AAATACATGG ATGTGGTCAA NGAGTGAATC CGTTTAGCTC GACAGATTGA 120  
GAAATCTGAG TATCGGAACT TCCAGGCTTG CCTNCACAAC TCTTGGATTG AGCAGGCAGC 180  
AGCTGCCCTG GAGATTGAGC TGGAAGANGA CATGTATAAG GNAGGAAAAG CTNNCCAGCA 240  
AGAAGAACGT CGGNGACAAA AGCAGATGGN GGTTCINGAA GAAGGAGCTG CGNCNCCTGC 300  
TTNTN 305

SEQ ID NO:7103

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08339

SEQUENCE DESCRIPTION:

GATCCACAAG TCCTTGTTCC ACTGTGCCTT GGTTCCTCCT TTATTTCTAA GTGGAAAAAG 60  
TATTAGCCAC CATCTNACCT CACAGTGATG TTGTGAGGAC ATGTGGAAGC ACTTTAAGTT 120  
TTTTTCATCAT AACATAAATN ATTTTCAAGT GTAACCTATT AACCTATTTA TTATTTATGT 180  
ATTTATTATTA GCATCAAATA TTTGTGCAAG AATTGGAAG AATAGANGAT GAATCATTGA 240  
TTGANTAGTT ATAAAGATGT TATAGTAAAT TNATTTTATT TTAGATATTA AATGATGTTT 300  
TATTAGGATA AATTTCATC AGGGTTTTTN GGATTAANCA ACCANCCAAT TGGGTCCCCA 360  
GTTAANTTTC CATTTCAGAT ANCCACCANN TAGTTTCNNN GTNTAGGTCC ATTN 414

SEQ ID NO:7104

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08340

SEQUENCE DESCRIPTION:

GATCCCCTGA CTGGCTGGGG GCAGCTCCCA GGATATCCTG CCTTCCAACT GTTCTGAAG 60  
CGCCTCCTCC TAACATGGCG ATTCCGGAGG TCAAGNNCNT GGGCTCTCCC CAGGGTCTAA 120  
CGGTTAAGGT GACCACATAC CAGTGCCAAG GGGNTTNTAA AGTGGTGATG TAGTTNTGCT 180  
CCCCTCCCCA AGAGCGGGTG GNGGGGGGTT NAANATGTTT GGCCTGNNTA AGTGGGCCTT 240  
CCCATNAAG TN 252

SEQ ID NO:7105

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08341

SEQUENCE DESCRIPTION:

GATCTTATTT TTTAATTTTA AGTGCCACTA TTAATGTAAA AAGGGGGGGG CTCTACAGCA 60

GTCGTGATGA AACTTAAATA TATATCCTTT GTCCTCGAGA TTTTAGGAAG GGTGTAGGGT 120  
 GAGTAGGCCA TTTTNAATTN CTGAAGTGCT AAGTGTTTT ATACAGCAAA CAAAAAGTCA 180  
 ATTTTCCTTT CCACCAGTGC GAGAGAGGAT GTATACTTN CAAGAGAGAT GATTGCCTAT 240  
 TTNCCGTTTG ACAGAGTCCC GTAGATGAGC AATGGGGAAC TGGTTGCCAG GGTCTAANTT 300  
 TGGATTGATT TATGCACN 318

SEQ ID NO:7106

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08342

SEQUENCE DESCRIPTION:

GATCTGTGAC CCCAGCCATG AGGACCCTCG CCATCCTTGC TGCCATTCTC CTGGTGGCCC 60  
 TGCAGGCCCA GGCTGAGCCA CTCCAGGCAA GAGCTGATGA GGTGCTGCA GCCCCGGAGC 120  
 AGATTGCAGC GGACATCCCA GAAGTGGTTG TTTCCCTTGC ATGGGACGAA AGCTTGGCTC 180  
 CAAAGCATCC AGGCTCAAGG AAAAACATGG CCTGCTATTG CAGAATACCA GCGTGCATTG 240  
 CAGGAGAACG TCGCTATGGA ACCTGCATCT ACCAGGGAAG ACTCTGGGCA TTCTGCTTN 299

SEQ ID NO:7107

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08343

SEQUENCE DESCRIPTION:

GATCTTAGAG GTTGAAGCCC ACCTTCTCTT TTCACATAGG AGGGAACAGA CCATGGAAAT 60  
 TTAAACGACT TCCTCACGGT CACAGAACTA GTTTTTTAAT CCTCAGGCAG TGNATCCCCC 120  
 CACCCTACAA CTGTGCACAA CCTCTTTCCC CACAGTGCAA TTCAGAATAT GCTCAGGGAA 180  
 TGCCAGGCAC CTGTAAAAAC TGCTGGGAGA AAAGCATGNT TCCCACAAGG ACTAAGTATC 240  
 AGTGATTTGT AATTTTCCTG TTTTGTATTA TCTGCTTTCG TGATGTAGAC AAGAGTTAAC 300  
 TN 302

SEQ ID NO:7108

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08344

SEQUENCE DESCRIPTION:

GATCNAACTG TCTCACTGCT TTTCCAATA TAATCATNTC GCTCTNACTT TAACAAAAGG 60  
 CGATGGCACA GTAATTTAGT AAATTTNTGT AATAACATNT AAAAAAAGN 110

SEQ ID NO:7109

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08345

2153480

SEQUENCE DESCRIPTION:

GATCCTGTCT AAAAAAGAAA AGAAAAGAAA AGAAAAGAAA AGAAAATCAG CATTGTATCC 60  
CCAGAACCTG CTACAGTGTA CTGTACACTT AATAAATATT GGTGAATGA ATGAACTGAA 120  
A 121

SEQ ID NO:7110

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08346

SEQUENCE DESCRIPTION:

GATCATCAGT AAATTTGTCA TGTTATATAT TTATTTTTTT ATAAATCAAG ACTTCTGTGT 60  
GCTCTTAAAT ATATTAAGAAA CAATTACAT TTCAGGAAA 99

SEQ ID NO:7111

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08347

SEQUENCE DESCRIPTION:

GATCCCAGNA GGAGGGAAGA AAATTTGCAG TGACTGAAAA CAGTAAAAAA AAAAAAATA 60  
ATGTATAAAA AAGTTGCATT ACACAGTNCA AA 92

SEQ ID NO:7112

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08348

SEQUENCE DESCRIPTION:

GATCATTCTN GTTGATACCC TTCTTTGAAT ATTCTAGTGT ATTAATATAC CATTGGTTAT 60  
TNAATCATGT CTNATTAATG GACTGGCTGT TTTCACATAT TNGATATATC AAGTGTCTTC 120  
ACAACTTGTG CTTGCATATT CTTCCCAAA ATATTGAAAG TCCATATATT TCCTTGATCA 180  
TNTTTAAAGT TGATATCTNA ATNTNTCATT GTAGTNGCAA AGCATGTAAT TNCTTGGGGG 240  
AGGGGGGCTG TAAATATTGA CATTTTAAAA TAAACTTTT AAATCAGCCT TAAATGTATC 300  
AGGN 304

SEQ ID NO:7113

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08349

SEQUENCE DESCRIPTION:

GATCAAAATT CACGTCGTCT TCTGTATACT GTGGAGGTAC ACTCTTNTAG AAAGTNCAAA 60  
AAGTCTACGC TCTNCTTTCT TTCTAACTCC AGTGAAGTAA TGGGGTCCTG CTCAAGTTGA 120  
AAGAGTCCTA TTGCACTGT AGCCTCGCCG TCTGTGAATT GGACCATCCT ATTAACTGG 180

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CTTCAGCCTC CCNACCTTCT TCAGCCACCT CTCTTTTCA GTTGGCTGAC TTCCACACCT 240  
AGCATCTCAT GAGTGCCAAG CAAAAGGAGA GAAGAGAGAA ATAGCCTGCG CTGTTTTTTT 300  
AGTTTGNNN 309

SEQ ID NO:7114

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08350

SEQUENCE DESCRIPTION:

GATCTTCCCC AGCTATGAAG CCTATCTTGG AATGGGAAAC CATGAAATTT GTCTTTTAAA 60  
AGAAAAGGGAA GAAATAGCCT TACAGCCCCT GTTCCTCCAA GTGCACATTT AGCCTTAAAA 120  
TCCTGGGAGT CGGGAGACAC CGTGGAGTCC TTACATCCAC AGTGTCTGCT GGTGCTGGTC 180  
AGAAGGCAGT AATGCAAGAG TCCTTTTGTG AAGAGTGTTT CTATGTAGAG ATGTTTATAT 240  
TTAAGTAGTT CTTTATAAAA TAAAAGCATT TCTAATGGCA AA 282

SEQ ID NO:7115

LENGTH:27

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08351

SEQUENCE DESCRIPTION:

GATCTGTTTT CTGTAACTTT TGCTAAA 27

SEQ ID NO:7116

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08352

SEQUENCE DESCRIPTION:

GATCTTAGGC TTCAGCTCTT TATCTTACAC CTTGAGACCC CAAGAGAGTC CCAAATTCCT 60  
GGAAAGGCAG CATCACAGAG TGGGGAATA CAGGACTTGG CTTTAGGTTT TAGTCCTTAA 120  
CACAGCTTCT TCCTTGCTGT GTGTTCTTTG GTAGGTCAC AAATCTCTCT GAGCCTCAAA 180  
TTTCTTATCT CTAGGTTGAA AAATAAATA AAGTCCCAT GCCAATCAGT GCAAGGAATC 240  
TGTGAGATAA A 251

SEQ ID NO:7117

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08353

SEQUENCE DESCRIPTION:

GATCACGCCA CGGCACTCCA CCCTGGGCGA CAGAGCGAGA CCTTGTCTCA GAAAAATCT 60  
GTGAGGTAA AAGGCTGTGT GTGTGAAAAT ATCTTGAAA TTGTAAAGAA CTACACAANT 120  
AAA 123

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SEQ ID NO:7118

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08354

SEQUENCE DESCRIPTION:

GATCATTCAT CAACATGTGT CTCTNAATTT AATTCAGTAG TTGTAATTAT TCTTTGGTTT 60  
 AGACCAAGAA AAAGGAAATC CCCCCTTNA ATGTATTCCT TGGTTNAGG ACATGACTCC 120  
 TGTAAGGNAG AGGAAAGGA GATGCTTCCT GTTTGANCTG CAGTGAATTC ACGGTCCTG 180  
 TTTCACCACT CCAAACCTTA TGGCGACTCA CACACACATT CCTCTTNCT GTTACTGCCA 240  
 AAGGTTCCGG TTAGTACAC TTCAGTTCCA CTCAAGCATT GAAAAGGTTT TCGTN 295

SEQ ID NO:7119

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08355

SEQUENCE DESCRIPTION:

GATCCCCAGG ATGCCCACTT CCCTCCACCC CCACACCCCA GCCGTGTCCC TAACCCCTGG 60  
 CAACCAGGAA TCCACTCTCC ATTTCTATAA TGTTGNNATT TCAAGAATGT TATTCAATGG 120  
 AATCATATAG TATGTAACCT GTTTGAGCT TAAAAAAAAA GTATACATGA CTTTAATGAG 180  
 GAAANTAAAA NTGGATATTG AAA 203

SEQ ID NO:7120

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08356

SEQUENCE DESCRIPTION:

GATCCGTTAG TGTCTGTTTA GAAAAGATGT TATAAACTTA CAGAAACAAA TATAATAAAC 60  
 TGAAGCAGAT TTGAAAAGCA AA 82

SEQ ID NO:7121

LENGTH:79

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08357

SEQUENCE DESCRIPTION:

GATCTTTTGC ATTGCAGAGA TTTTATATAT ATTTGTTTG TAATGAGCCA TTCTCAATAA 60  
 ACATTATTCT CACTGCAAA 79

SEQ ID NO:7122

LENGTH:299

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08358

SEQUENCE DESCRIPTION:

GATCCCTAGT AACTCCTTC TTCACTTTTA CTGTCAGATT TACAAAGGTC CTCCCATTGC 60  
AAAGCAGTGN NNNTCCTAAT TTATATATTG TTTNCTAGT TCATTTTGTG TTTCCAACCT 120  
TTCATGTAAA ATTTTAATTA TTTTGAATG TGTGGATGTG AGACTGAGGT GCCTTTTGGT 180  
ACTGAAATNC TTTTCCATG TACCTGAAGT GTTACTTTTG TGATATAGGA AATCCTTGTA 240  
TATATACTTN ATTGGTCCCT AGGCTTCCTA TTTNGTNACC TTGCTNNNN NGTGGCANN 299

SEQ ID NO:7123

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08359

SEQUENCE DESCRIPTION:

GATCATGTGC CAAGGCTGCG GTGCGTTCTG TCACGATGAC TGTATTGGAC CCTCAAAGCT 60  
CTGTGTATTG TNCCTGTGG TGAGATAATA AATTATGGCC ATGGGAAA 108

SEQ ID NO:7124

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08360

SEQUENCE DESCRIPTION:

GATCAGACTG TGCTTCTAA TTCTAAAAA TTGAGCAGTG TTGGTATTCT TNCAGTATTT 60  
TTNCTCTCAC CTGGAAGT ACCTGGAAGT TGTCAGGCAT TTNCTTACTG NNN 113

SEQ ID NO:7125

LENGTH:125

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08361

SEQUENCE DESCRIPTION:

GATCTCTAAG TAATTNTNCA AAATCCGGTA TTACTATGTC AAGTTATTGC TTTTGGTAAA 60  
TTCATCTGAC CCAGTTATAA ATGAAAGANT ATGGANTTAA AAATTTTAAA NCTAAATAAT 120  
TTGNN 125

SEQ ID NO:7126

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08362

SEQUENCE DESCRIPTION:

GATCATGCTC CATCCAGCCC CACCCAATGG CCTTTTGTGC TTGTTTCTA TAACTTCAGT 60  
ATTGTAAACT AGTTTTTGGT TTGCAGTTTT TGTGTGTGT TATAGACACT CTTGGGTGTA 120

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122

SEQ ID NO:7127

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08363

SEQUENCE DESCRIPTION:

GATCGGCACT CACGATTGTN ATGTTGGCTA CATCCTTGAC AAAGCCGATG GCCTTTCCAG 60  
GTTGGAACCT GCAATAACCA TCCTGTTGAG GATGCAAAGG GCATGAAATA CAGGTTATGG 120  
ACCCGAAGTC TCAGCCTCCC CACGCAGTTC AATAACATTT ACTAAACAAA ACAAGATGTG 180  
CCAGGGCCTG GGGGATGGGA TAATTCAGA GAGAATTAAA GCATCCTTGT CCTCAAGGAG 240  
CTTAGGGTCT GGTAAA 256

SEQ ID NO:7128

LENGTH:346

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08364

SEQUENCE DESCRIPTION:

GATCAACAGG GGTGAAAAGA ACCACCCTGA GTTTCCATG CCTCTCCCAN NTTTAGTGGT 60  
AGNATTTTGT GTCTTTACTC CACCCCTCAC CCTAGTTCCA CCAAGGTTCA CACACCAGAT 120  
GTAAGTGTG TNNAGCTGAG TTGTATGGAT TAACTTCAGT CCACTGTAAA TACACCTGGG 180  
ATGGGGTGGG GTTGGGGTTG TTTAGGGAGA AGCAGCCAGA CTGCTTTGT GAACTGAATG 240  
TATTTTATG CAATTTTGAG TGGCCTTTCA ACCCTAAGAT GAATGGTTTT GTTTTACTGG 300  
TTGTTGTTAT ATAGTTTGA GTATTCTGTG TTTGAAAGTT TGGGTN 346

SEQ ID NO:7129

LENGTH:42

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08365

SEQUENCE DESCRIPTION:

GATCGTGTCT CTGATAAAG AATAAAGCT GTTTATTGCA AA 42

SEQ ID NO:7130

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08366

SEQUENCE DESCRIPTION:

GATCTTAGGT CCCACTCANG GTCCTAACTG GCTATGGCCA CAGCTGGAAC TACCCGAGAA 60  
GNCTTTTGTA CATGTTTGGT AGCCGTAGCA CAAGTGATTG GAGTAGAACA TGCTACTGCT 120  
GTACATTTTT AACTCCCCTA ATGGTGTGTC TATAATTNTN AAATCTAAGG GGGGGGGCTC 180  
AGTAAAGCCT CCTGGCACCA GGCCTTCCTG CTCGACTGAA AAAAATTCN TCTTTGAAAA 240

TCCCCTTTTA CTCATGGCCC ACAGTAGAAT ATCCAAAACG CCTTGGCTTT CAGGCCTGGC 300  
 CTTTCCTACA GGGAGCTCAG TAACCTGGAC GGCTCTAN 338

SEQ ID NO:7131

LENGTH:294

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08367

SEQUENCE DESCRIPTION:

GATCTTTTCA AGATGCATTC CAGATGAACT GCTAGGTGAG GGGGAAGCTT CATTTTGTG 60  
 ACCTGATAGA ATAGCTTNC TNATGAGATA TATATAATGT GATACTATGT TTGGATATT 120  
 TTGGTCTTAA AGCAAGACTC AGTGGTGTAT CTNCATTAAG AGCTTCCTTT AAAAAGNTA 180  
 CAGGGNTACT AAAAAACAA GNACCCAAAC AATCAAGNTG GGCCACCTT GGNACCTGT 240  
 TTTGNATNAC CTTCCATGGT TTGGTTGGCG GTATGGNAAA AGGATTGNNT GGTN 294

SEQ ID NO:7132

LENGTH:107

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08368

SEQUENCE DESCRIPTION:

GATCATGCTG TGTGGAGGAC AAATCTTTAA AATCCAGCA TTGTATTGTC TATTGACACA 60  
 CAAAGTTTGA AAATAAAGGG GCAAAAAATT TTAATGCAAA AATGAAA 107

SEQ ID NO:7133

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08369

SEQUENCE DESCRIPTION:

GATCTGCGAT GGCTGACATN AATAGGTCAC CATGTTGGCA GCTGTATAAT CAGCAATGAA 60  
 AGCTGAATAT TATCACCAGA TAACCAAATT ATGAAATATC TATATNANCT TCANGATTCA 120  
 GGNCCANTGA ACCAGTATCT GCCCTTACGA GATTTAGCTG AANGTGAANT GCAAGGTGGT 180  
 GAACGGCATT CTAACAAGAG TGTGAAGAAA GAGATNGANG GCTGTCCGCT GCTGGAGGGG 240  
 AAGAANGGTG GGGCGGCTTT TNCAAGGCTC TGTGGCTCAG TGGACCTTCA ATANATTGGA 300  
 CTTCAATAA ATTAATTGNA AANCANGN 328

SEQ ID NO:7134

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08371

SEQUENCE DESCRIPTION:

GATCTGAGGG ATTTGCTCGT CATTTGCTGT GGCAGAGATG ATGTTGACAC CCTGGGATGC 60  
 TGTGGGAGGG ACAAAGACT CACGTATATG TTCTGTCAAA TCGGAGAAGT AAATAATCCG 120



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TTGGGATGCC AGGATACTTT ATTCTACAGC GAAGTTAATT TTGTATCCGT CGAGGCTACA 180  
GTAGAGGTAA AAATGACATT GAGTTGTA CTGCTTTGAA TTAAAGTTGA TGGGTAGCAG 240  
CAAA 244

SEQ ID NO:7135

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08372

SEQUENCE DESCRIPTION:

GATCTTGACT CCAAAAATTA ATAAATAAAT AAAAATAAAT AAAATAAA 48

SEQ ID NO:7136

LENGTH:48

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08373

SEQUENCE DESCRIPTION:

GATCATGGTA TAATTAATTG AAATTTATTA AAATCTGTTT TTATTAAA 48

SEQ ID NO:7137

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08374

SEQUENCE DESCRIPTION:

GATCTGTGAC TTCAAGTTTG GACCGTGGAA GAACAGCACT TTCAAACCCA CAACTGAGAA 60  
TNATGACACA GGGACAAGTA GCAGTGATAC ATCAGATGAC GACGATGTNT GAAGGATTTC 120  
CTAACAGCTT TNGAAATCTT AGTGTGATAC ATCTCTCATA CAGTTTGGGG NGAATTGTNA 180  
AAATGAAAGG ACTATANTTT ATGTAGTGGA ATACCCCN NN AGAAGAGGNN TTTTTTGGGG 240  
GCTTCAACTT GNTGGAAACC NAGANTN 267

SEQ ID NO:7138

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08375

SEQUENCE DESCRIPTION:

GATCATTGAA ATTCTGAGAA AACTTCTTTT AAACCTCACC TTTGTGGGGT TTTTGGAGAA 60  
GGTTATCAAA AATTTTCATGG AAGGACCACA TTTTATATTT ATTGTGCTTC GAGTGACTGA 120  
CCCCAGTGGT ATCCTGTGAC ATGTAACAGC CAGGAGTGTT AAGCGTTCAG TGATGTGGGG 180  
TGAAAAGTTA CTACCTGTCA AGGTTTGTGT TACCCTCCTA TAAATGGTGT ACATAATGTA 240  
TTGTTGGTAA TTATTTTGGT ACTTTTATGA TGTATATTTA TTAAACAGAT TTTTACAAAT 300  
GGAANAAAGA NAAA 314

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SEQ ID NO:7139

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08376

SEQUENCE DESCRIPTION:

GATCCAGAGT AAATGAGAAG TCTCTATCTG AGCTGGTCAG TTAAGTGGAGT ACATGTNACT 60  
 AATCTGGGTT TAAAGTTTAC TTCATTATCT GCTAGTGTCA TCCACAGCAG TTCATCCTCA 120  
 TCCACACTAA GCCATCCTGT NAGCTTTTAA AGGAAGTTAA TTTAATTAAC ATTAATATAC 180  
 TCTATGGGCT CCTCTCCTCA CCTGTCTGCA TAGAAAGGCA GAATTAGACA TAGCATGCTT 240  
 TGGAAAAGCA AATAGGAATT GTTGGGAATG ATTTANTCTT GTTGTGTGTG TTGTTGTTGT 300  
 TCACTTGTGG TTCTACATTC CTGGTGNATG NTGAATGTNG CTGTCAAGN 349

SEQ ID NO:7140

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08377

SEQUENCE DESCRIPTION:

GATCTTGTGC TTCCATTTAA GAAATTCTTC CATTTAAAGA AGAAAAAAAA TCTCTCTAAT 60  
 TGACTATCTG AAGATATATG AAAAAGCCTA TGCTTTTAAA TTAANCTGTT AAGACAGTCC 120  
 ATTGAAAGAT TGTGGAAGTN CACATCTATT TTNCACCTTA ATTTTTTCCA TTGTCCCTAC 180  
 TCATGACTCT AAAAAGTGCA TGGCTTGGGG CTATACTTTG TTTTGCAGTT TGTGGTATC 240  
 GTGCCCTTCC TTATCTACAT TAGCTTAGAC TATACCTTNT TTTTNGAGAAG GGGAAAGTGGN 300  
 AATTAAGTGT GGCAAAACCT ATTTNGGCAC ACCNCCTTTG TTCAATN 347

SEQ ID NO:7141

LENGTH:121

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08378

SEQUENCE DESCRIPTION:

GATCTTAATT CTTGCAATT ATANATGAAA AATGACTGAT TTTTCTNAAA ATATGTAACT 60  
 TATNTAAATA TATCTGTTTG TACAGATTTT AACCATAAAA ACATTTTGG AAAACCATAA 120  
 A 121

SEQ ID NO:7142

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08379

SEQUENCE DESCRIPTION:

GATCTGGAAA CTATTTGGGT TTTGTTTTCA ACTTTTCATT NGGATGTTTG NCNTTGCACA 60  
 CACACATCCA CCGGTGGAAG AGACGCCCGG TGAAAACACC TGTCTGCTTT CTAAGCCAGT 120  
 NAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTCTACCTCT GGGTATCCCT NNTGTCTGGG 180

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ATAAAGATN TCAAGCCAGT TGGCGGGATG GAATGGNTGC ACCGCAAATA ATGCATTTC 240  
TGAGTTTTCT TGTAAAAAA AAATTTTTT AAGTAAGNAA AAAANAGGTA ATAACATGGC 300  
CAATTTTNTT ACATAAAATG GCCTTTCTGG NGTNTAAATT ATTCCTAAAA AAATCCNGTT 360  
TTATATANAC NATCCAGTTG NTGGAAAAA NTTTTCCAAA NGTTTTTGN 409

SEQ ID NO:7143

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08380

SEQUENCE DESCRIPTION:

GATCTAGAAA ACTTTGGATT TTTGAAGTAA ATTTAATGT TTCATATTAA TTTCTTGAAA 60  
ATGTATTAAA TGTCAATTGAA AGCCTTAAA 89

SEQ ID NO:7144

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08381

SEQUENCE DESCRIPTION:

GATCACTGTG GACCATCTTA GCAGTTGACC TAACACATCT TCTTTTCANN ATCTAAGAAC 60  
TTTTGCCACT GTGACTAATG GTCCTAATAT TAAGCATGTT GTTTATATTT ATCATATATC 120  
TATGGCTACA TGGTTATATT ATGCTGTGGT TGC GTTCGGT TTTATTACA GTTGCNANTA 180  
CAAATATTTG CTGTAACATT TGACTTCTAA GGTTTAGATG CCATTTAAGA ACTGAGATGG 240  
ATAGCTTTTA AAGCATCTTT TACTTCTTAC CATTTTTTAA AAGTATGCAG CTAAATTCGA 300  
AGCTTTTGGT CTATATTGTT AATTGCCATT GCTGTAAATC TAAAAATGAA TGAATAAAAA 360  
TGNTTTCATN NTAAT 375

SEQ ID NO:7145

LENGTH:513

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08382

SEQUENCE DESCRIPTION:

GATCTCGCTC CTTTGAGAGG TCCCATAAAA GCAAGCACCA TGGTGGCAGT CGCTCAGGAC 60  
ATGGCAGGCA CAGGCGCTGA CTTTCTCTTC CTTTGAGNCT GCATCAGTTC TTGGTNTTGC 120  
CTATCTACAG TGTGATGTAT GGA CTCAATC AAAACATTA AACGCAAACT GATTNGGATT 180  
TGATTCTTG AAACCTCTA GGTCTCTAGA AACTGAGGA CAGTTTCTTT TGAAGAAGAAC 240  
TATGTTAATT TTTTGCACA TAAAAATGCC CTAGCAGTAT CTAATTAATA ACCATGGTCA 300  
GGTTCAATTG TACTTTATTA TAGTTGTGTA TTGTTTATTG CTATAAAGAC CTGGAGNGTG 360  
AATTCTGTAA AAATGTATCT TATTTTATA CAGTAAAAAT TTGCAGACAC TGTCTATTT 420  
AAGNGGTTAT TTTGTTTAA TGGATGGGNG ATNCCTTNTT AANCACTGGN TTGGNCTGGA 480  
TNGTGAAGG TTTTNCAGG GNNTAGTTCC TGN 513

SEQ ID NO:7146

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08383

SEQUENCE DESCRIPTION:

GATCTGAGAA TCTTTATTGA GAAAGAGCAC TTAAGAGAAT ATTTAAGTA TTGCATCTGT 60  
ATAAGTAAGA AAATATTTTG TCTAAAATGC CTCAGTGTAT TTGTATTTT TTGCAAGTGA 120  
AGGTTTACAA TTTACAAAGT GTGTATTAAA AAAACAAAA AGAACAAAAA AATCTGCAAA 180

SEQ ID NO:7147

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08384

SEQUENCE DESCRIPTION:

GATCAAGAAA CTGGAAGATG TGAAGCAATC TCTATTGAGA TAGCATCTTA GTGTTT TAGA 60  
GAAATCAAGA ATTTTAAAA ACAAGAATAT CAACATTTGG TTTTGTGTAT AAGTGGTGT 120  
TGTATTA AAA TACTTTTCA ATGAACTGTA TAACTATGT TTTATTAAAC TACAATATAT 180  
CAGTAAA 187

SEQ ID NO:7148

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08385

SEQUENCE DESCRIPTION:

GATCCAGAGG CGAGAAGCCA CCCTGTTAGA NCTCCTGTCC ATCATCCAGG TAAGTCAACT 60  
CTCTCCTTTC AGGGCCAATC CCCAGACCTT TTGTTGAGCC AGGNCNNTAT CACCTNTCCT 120  
ACTNACTTAA AGN 133

SEQ ID NO:7149

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08386

SEQUENCE DESCRIPTION:

GATCCTTGTC AAAATGAGAT TCCAGGTCCT AGAGAGCTGC TTTNAGGGAG TTCCAGGAGT 60  
ACTTACTATT GGTCATGCAA TAGGAGAACA GAGACCCGNG GGCTGCTTTG GGGGAGGGGG 120  
GAACTCGAGA ATGTATGGAT TTACCTGAAA ACAAATTATT CATTTAATCA AA 172

SEQ ID NO:7150

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08387

## SEQUENCE DESCRIPTION:

GATCACCATT CAATTTGAGT TTCCAGGGGG AAGTGCATGT ATAATGAAAT GATAATGGAC 60  
 TTCAATGAAG AATGTCATCA ATTATGTACA TATGTATTTN CTTTAAATAC AAAGTGTAAT 120  
 TTTGTGCCAG TGAAATGGAG TCTGAATAGT TATGTGTTTC TTTTATCCCT GGAAATATTT 180  
 ATTAACTTT ATAGTTTATC CGAGTATGTT GTATGCTTTG ACAATAAATG ACTATTTTCT 240  
 TCAAAGCAAA 250

SEQ ID NO:7151

LENGTH:282

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08388

## SEQUENCE DESCRIPTION:

GATCATCACC ACCACGGTTC CTGAGGACAT CATGTCCAAC CGAGGCAATN ACCTCCTGCT 60  
 GAAGCTCCTG CAGNATCGGT ATCCCCGGGT GATGGCAGAG GAGGGTCTTC GAGTGGTGAG 120  
 GCAGTGGTTG GAGGCCTCCT CACAGCTGGA GGAAGCCTCA NTTATAGCC GATGGGAGGT 180  
 GGAAGAGGAC TGGTGTCTGT NTGTCCTCCG CTCCTACCAG GCAGAACACG GGCCCGACTT 240  
 CCCCTGGAGC GTGGGGGAGG ACATGAGTGC AGATGGACGG TN 282

SEQ ID NO:7152

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08389

## SEQUENCE DESCRIPTION:

GATCAAAGTA GAAGCNTTGT AATAATGAAT TTAAGGCCAC GCAAAANCTT TCCTCACCTA 60  
 TTGACATGAC ATCTAAAAGA CATTTCGAAC TCGAAAAGCA TAGTGCCCCA AGTATGGTAC 120  
 ATTCTNCTCT NACTCCTTTC TCAGTGCAAG TANCTAACAT TCAAGATTGG NCTCTCAAAT 180  
 CGGAGCACTG GCATCAAAAA GANCTGAGTG GCAAANCTCA GAATAGTTTC AAAACTGGAG 240  
 TTGTTGAAAT GAAAGACAGT GGCTACAAAG TTTCTGACCC AGAGAACTTG TATTTGACGC 300  
 AGGGGNTAGC AAACCTATCT GCAGNGGTTG TCTCACTCAA GAGNCTNTA GNCACACAAC 360  
 CAGTCTCTGT TTCAGACTCT GGGTAANTTN N 391

SEQ ID NO:7153

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08390

## SEQUENCE DESCRIPTION:

GATCTAAAAA TAATTCTTAA TCATGAATTT AATTCACGAC TTCCTTGTTT TCAGTCTTAT 60  
 TCAGTCTACT GTAGGAGATT TTAATANACT AAAGCTTTTG TTGATTATG AGTTAGAAA 119

SEQ ID NO:7154

LENGTH:284

TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS08391

SEQUENCE DESCRIPTION:

GATCTTGAC CAAGCCAACG GGTNTCCTGG CTCTCCTGCC CACAGGATGA ACATTTTCGG 60  
CTTCCTTAGG AGTTTGTCCC TACCGTATTC CAAAGCGTGT GCTGGTTTCT CATATTGTCT 120  
GTAGGCTCAC TCAGCCCGCA GTTTATGTGT GTGCTTTTT CTATGAAAA TGATGTATT 180  
TGCTACTTCC TGTGTACAAA GTTTTATTGT AAATGTTTT TGTGCTTTC ATGAACAGGG 240  
GCCACGTTGT TGCAATTGTT TCAGTAGAAC TGGTTTGATT TCTN 284

SEQ ID NO:7155

LENGTH:289

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08392

SEQUENCE DESCRIPTION:

GATCGAGACC ATCTGGGTA ACACAGTGAA CCCCGTCTCT ACTAAAAATA TAAAAAATTA 60  
GTCGGGCATG GTGGCGGGCG CCTGTAGTCC CAACTACTCG GGAGACTGAG GCAGAAGAAT 120  
GGCGTGAAC CAGGAGGCGG ANTGCAGTG AGCCAAGGCG ACAGAGCAGG ACTCTGTCTC 180  
AAAAAATAAA AAATAGTGCA CTGTCCTCG AGAAAGTTT CTAACATCTA GTAATTTGTA 240  
ACTTAGAAGT GGAGTTGCCT TGTGGATGTC TTTTTGTCAT TCTGTAGGN 289

SEQ ID NO:7156

LENGTH:293

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08393

SEQUENCE DESCRIPTION:

GATCCAATG CAGAGATGGC AGCTGAGTCA TTGCCAGTNT CCTTCGGGAC ACTGTCCAGC 60  
TGGGAGCTGG AAGCCTGGTA TGAGGACCTG CAAGAGGTCC TGTNTCAGA TGAAAATGGG 120  
GGTACCTATG TTTCACCTCC TGGAAATNAA GAGGANNT CAAAAATCTT CACCACTCTT 180  
GACCCTGCTT NTTTGGCTTG GCTGACTGAG GAGGAGCCAG NACCAGCAGA GGTCACAAGC 240  
ACCTCCAGA GCCCTCACTC TCCAGATTCC AGTCAGGGCT CCCTGGCTCA TGN 293

SEQ ID NO:7157

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08394

SEQUENCE DESCRIPTION:

GATCACGATG TAAATAATNA AGCATTTTGG TAGGATGTCT ANNGTAATAA ACAATTTTG 60  
TACCATAAA 69

SEQ ID NO:7158

LENGTH:312

TYPE:nucleic acid

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TOPOLOGY:linear

CLONE:HUMGS08395

SEQUENCE DESCRIPTION:

GATCTTGGCC TCCCAAACCC CTTATTTTAA AAATACTTTG CGCCTTGCTT TGATAATTTG 60  
TATTATGTAT CCAAACCTGAA ATNATCTGCT TTCTGCATTA GAATGTAAGC CCCCTGAGGG 120  
TTGAGTCAGT CTGTCTTGTG TGCTGTGCCA CGCCTGATGC CCAGCCCAGC AGCATGCTTT 180  
GTACACTGAT ATATTGGGTA AATTTTGTG AATAAATTAA GCTCAACTAT TTGTATTCA 240  
ATAGNTTGAG TTGTATTGCT TCCTGTTCTT CAAGCTTAAA TTTGACCTGT CTAATAAAAA 300  
GGAGNAATTA AA 312

SEQ ID NO:7159

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08396

SEQUENCE DESCRIPTION:

GATCTTTTGT GGTCTGTAA AAGATACTGA GGAATGTNTT TCAGCCAAGC CAAGAGGATG 60  
GTTTCAATAA ACCTAATAAT CTGAAGTTCA AA 92

SEQ ID NO:7160

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08397

SEQUENCE DESCRIPTION:

GATCTTGCAA TATATACTCA GGAAATTACC ATGGGCAGAA TAAAATGCTT TAAAAATAA 60  
A 61

SEQ ID NO:7161

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08398

SEQUENCE DESCRIPTION:

GATCCAAACT GNAGAACTTC TCATTCATCC CCAAGGCCTC CAGGCAGTAT CCAATGGGGA 60  
ATCAGCTCTA AAAGGAACCA GACCAACGTT TTCCAGCCCC TTNATTCTGC TTCCNTCTGT 120  
NTNAGGAAAG GNTAGAAATN TTCAGGGCAT CATCATACAG GCTCCTCATC TACAAAGTTC 180  
CAGTAGCAGT GACGCCTACA CGGAAGANTT GGAAGTCAA ACAGGCTGGG GTCACCTCAN 240  
TNGCATCTGA CGCTGTCCAA CCAGAAGTTC GATTTTNTN CTGGGGGTGA AGGTGGAAC 300  
AGACTGTACT TAAAGGNTN 319

SEQ ID NO:7162

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

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CLONE:HUMGS08399

SEQUENCE DESCRIPTION:

GATCCANAAA TAAGTTTAAC TTACGGAGGC TTCTAGTTCT AAAGATGCAA NGTAAGATGC 60  
CAAAGCAGTG GAAAGATTGA AGTCAAACAG TCGGGCCCAT GTGTGTGTCTN TACNTCAACC 120  
NTTNGTGTGT TATN 134

SEQ ID NO:7163

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08400

SEQUENCE DESCRIPTION:

GATCTATGTG TCTGTNTGTG TGTCCATCCC GCCGACCCCC CAGACTAACC TCCAGGCATG 60  
GACTGAATCT GGTTCCTCTC TTGTACACCC CTCAACCCTA TGCAGCCTGG AGTGGGCATC 120  
AATAAAATGA ACTGTGCGACT GAACAAA 147

SEQ ID NO:7164

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08402

SEQUENCE DESCRIPTION:

GATCTAGNAA CTAGNAAATA CTATTTGTCC CAGCAATCCC ATTACTGGGT ATATACCCAA 60  
AGGAATATAA ACCATTTAAT TATAAAGATA CATGCAGATT TTTATTCATT GCAGCACTCT 120  
NNACAATAGC AAAGACACAA TAGCAAATGC CCATCAAAGA TAGACTGGAT AAAGAAAATG 180  
TGGTACATAT ACACCATGGA ATACTGTGCA GTGCAGCCAT TACAGCTTTT GGTGATACAG 240  
TGAATCAGAT TTTNNATTAA TTCTTTTAAT TGTTATTAC TGNNCGTGGA NNAGTAATGG 300  
TTTGTATTGG NATCCTTGNN 320

SEQ ID NO:7165

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08403

SEQUENCE DESCRIPTION:

GATCCATATT TTAAATTGCA ACCCTGTTCC CTATGATACC TATCTGTCTA TGAATGAAAC 60  
AAAGGTTTTA CAAA 74

SEQ ID NO:7166

LENGTH:178

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08404

SEQUENCE DESCRIPTION:

GATCCAAAGA ACTTCTGTGA TATGGGTTAT AGCTGTTAAT ATTTGTCATA TTCGAAATTG 60

02037



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AAATAAGATT TTAAGGTATT TTAATAAAC AGTNCAAAAC CATTGTATNT TGACATGAAT 120  
AACACTTTTA TGAATAAAC TATATTCCAA AACAATAAAA TTACCAAAAA GTTGCAAA 178

SEQ ID NO:7167

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08405

SEQUENCE DESCRIPTION:

GATCACAGAT TTCATCAGGA TTGAGCTGCG TGGTAAGCTC GCCACTCTGG ACAAGTCACA 60  
GGGTACCCAT TATTTAGCAA TAAAAGCTTT AACTCAAA 98

SEQ ID NO:7168

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08406

SEQUENCE DESCRIPTION:

GATCTCTGTG GCCTAGGTTT TGTACATACA GAAACTGCAT GGTATTTAAA TTATTGTTTG 60  
TCTCTGATGA TGTATGCAGT TTCTTTAAAA ACAACCAAA AAAAAGTAAA 110

SEQ ID NO:7169

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08407

SEQUENCE DESCRIPTION:

GATCCTGAAG AGCGCTGAGG GACGGGTGCT TCGNCGANCA GCACCAGCGA NACGTCAAAC 60  
TCATGAGACA GATGCTAATG GATGCCGNCC TCCCTANTTG TCCACTGCCC CAGCCACATC 120  
ATCCCTGTGC GGGTTGCAGA TGCTGCTAAA AACACAGAAG TCTGTGGATG AGCTAATGAG 180  
CAGCCATAAC ATCTACGTGC AAGCAATCAN TTACCCTACG GTGCCCCGGG NAGAAGAGCT 240  
CCTTCGGGNT TGCCNCNACC CTTNNGGGGG GACCCCAGGA TTGNTGGAAC TAANTTCN 298

SEQ ID NO:7170

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08408

SEQUENCE DESCRIPTION:

GATCCACCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GCGTGACCNC TGCACCCGGC 60  
CAAAAGTTGA TTTTAAATTA CATAAAATC GTAAAACTT CTAGTAAAAA CTGATTNNG 120  
NGANTACAGT TATATTTTAA AACCTTAAGG TGACAAGCAT TTTCTATGCC TAAATCTTCA 180  
TTGGTTTGCC TGGAAAGAGT CTCTGTAAAA AGATTTTCCA TATTCAAAGT AAAAGGAAAG 240  
ATTCTTTGCT TTCTAATTGT CTTTGGACA CATGCCTATT TTCTTTGAGG TATAANCCTT 300  
TAGATGTGAA ANATGTAATT TCCATTNN 329

02038

2153480

SEQ ID NO:7171

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08409

SEQUENCE DESCRIPTION:

GATCCAGATT TTTCTGTTG TGTCTGAAGA GAACCATGAC ATTTAGAAGT ATATTGGTAA 60  
TCTATTAGGT CCATTGGCAA AGTATATTGG TCCATATTCA AACCTATTCC AAAAGGTTAG 120  
AAGTGTTTAA GATTCCCTTA TTGTGGTACC ATGTCTGTTT ACCTATGCTT ATGAGCAACA 180  
ATAANTTACT AGTTTACCTT CTGGAATTTT AAA 213

SEQ ID NO:7172

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08410

SEQUENCE DESCRIPTION:

GATCTGGTGG GCAGTCGAAC CATGGTGAAC TCCACCTCCG TGGAATAAAC GGAGATTCAG 60  
CGTGGGCGAC TGAATCCAGC ACGTCTGTGT GAGTANCGGG ACAGTAAACA CTCCACATNN 120  
NNTCAGTTTT TCATTCTAC CTACATATTT GTATGTTTNN NTGTATAACA GCCTTTTCCT 180  
TCTGGTTCTA ACTGCTGTTA AAATTAATAT ATCATTATCT TTGCTGTTAT TGACAGCGAT 240  
ATAATTTTAT TACATATGAT TAGAGGGATG AGACAGACAT TCNNCGGGNT ATTNCTTTTA 300  
ATGGGCACAA AATGGGCCCT TGCCTCTAAN GN 332

SEQ ID NO:7173

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08411

SEQUENCE DESCRIPTION:

GATCCAGAGG CTCAGTGAAC CCCATCAACT TGGTGGCCCT GGTGTCTCAC ACTTGTATCC 60  
TTCTGCCCTC GAGACCTGGC ACAGCAGTAT CCCTTGAAGA AATCCTGAGG CTTTGTAGAG 120  
TGCTCCTTGA CCATGTTTAA TAATTCTTCC CTCCCCTGCT TGTNTATTTT TTTCTCTTCA 180  
CGGCTCTTCC TATACCTTAG GCCAGTCTCA AGCACTCACT GGAGACCCCT GGGCCTTGGG 240  
CGACCATTGA GTCCTAGTCT CCCTTGTTTG TGCCCCTGTA GGAGGTAGGT CCTTTTNTCC 300  
TCCGGCCTAG TAGGGGACCT TGGGTAACAT TN 332

SEQ ID NO:7174

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08412

SEQUENCE DESCRIPTION:

GATCTGCTTT GCAGAGGAAA TAACTTGTTT TTTCTCATGT TTCATCTTCT TTTTATGTAA 60

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ATATGTAATA CTTTCCTATA TTGCCCTTG AAATNTTTGG ATAAAAGATG ATGTTTAAAG 120  
TTCCAAA 127

SEQ ID NO:7175

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08413

SEQUENCE DESCRIPTION:

GATCTGCCCG CCTCAGCCTC CCATTGTTGA CCATTTTAT ATGTTTATT ACCTATGTGG 60  
TTTTCTTTTC TCATAAAATG CTTGTTTATA TATTNCCCC ATTTCTACTT ATCTNGTTCT 120  
TATTAAATNG CCAAAGTGCA TAAA 144

SEQ ID NO:7176

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08414

SEQUENCE DESCRIPTION:

GATCATCTCT AAAATTAATAA AAATTAATAT TAAATGTTGG ACCAAGGATT TCAACCATGC 60  
AGTATGTTGC TTCTGGGGTC TGCTGTCCTA TTCCAGCCCT AGTGAATAGT TAATGCCTTG 120  
AACTATTCCT ATCACCACAG GTTGCCAGGC CACCAAATAA CGAAGCCAAT CCAGGATTG 180  
TCCATACAGA AAATGTGTGC GCTCCCAGCT AAATCTCAGT TAAGGAGGTT GTTCTATATA 240  
CAGCCAAGTA GCAGAAATAT TCATAAATGT CATTGCAAA TATAATAAAC ANTGTAATGA 300  
ATGGGTATTT CTTTCTTGT TAATTCTATG TGCTCAATTA AAAGGNN 347

SEQ ID NO:7177

LENGTH:213

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08415

SEQUENCE DESCRIPTION:

GATCATACTA ATAATTTAAT ATTTGAATTG TATGGAAGTA CAATTCAGTA TCATTTTACA 60  
TATGGTATAT TGTGATGCTG TATCATATTT TATGTTACGG TTTATAAGAA AAGCTCCTAG 120  
GTATAAAATG CTACATAGCA GGAAGTTGGT TTTTCAATGT TATTATTTC TACTGTTTTT 180  
GACGTAACGG CAATAAAATT TGTTTGAACC AAA 213

SEQ ID NO:7178

LENGTH:161

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08416

SEQUENCE DESCRIPTION:

GATCTTAAGA AGAGAATAGA ATCTTTAATT GACCGGGACT ACATGGAAAG AGATAAAGAA 60  
AATCCAAACC AGTACAACTA TATTGCATAG AATGTTGGCC TTGCAGCATT TGGTGTCTA 120

TGCAGTAGCC AGTGGATAAA CTAACCTGTT GATTCAATAA A

161

SEQ ID NO:7179

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08417

SEQUENCE DESCRIPTION:

GATCATGTGC AATATTTCTT ACTGTGCCGA GAAGCCACAA TGAGCGAGAT TAAAGCTGTT 60  
TAACACAAA 69

SEQ ID NO:7180

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08418

SEQUENCE DESCRIPTION:

GATCTCTGTT CCTTTGGCT CTAATATGCT ACAACTGTAG GCCAATTATC ACTTTACCAA 60  
TTAAGAGTTA GGCCAGATAA GTGAAATTTA ACTTAAGGGC ACACAGCTAA TAAGTAATAG 120  
GCCTAAACTG GATTTCCTTA TTCCAAATCC TGTCTTTTCC CCACTATTCC ATTAGACCCC 180  
ACAAATGTTA GTTGTGTGTG TGTGTGTGTG TGTTTTAAAT CACTGTAACC GGGTGCATT 240  
TTTTAAGGCA AAATTTCTCC CTTATCTACT GTGATGACTT CAGAAGATAC ANTGGTCCCA 300  
GGGGCCAAGT AGAAAGCATT TTAAAGNTT AATCTGAATT AAGCTGAN 348

SEQ ID NO:7181

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08419

SEQUENCE DESCRIPTION:

GATCCACTTC TGTAATTAAG TACNTGGTTG TCTCGTGATG CGTCTACAGT TATTTATAGT 60  
TACAACCATT ACCNGNCACT GTAGATACAC ATATAAAAT AGNTGTNGG TATCCATAGT 120  
TNCGCTTGTT CN 132

SEQ ID NO:7182

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08420

SEQUENCE DESCRIPTION:

GATCTCATCA CTGCACTCTA GCCTAGGTGA CGGAGCGAGA CCCTGCCGCT AAATAAATAA 60  
ATAAATAAAT AACATAGTAG TGAAA 85

SEQ ID NO:7183

LENGTH:224

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08421

SEQUENCE DESCRIPTION:

GATCATGGAC TGGTGCCTTT GCATTCAGAA GGAGAGCTGT CAGCGTANAC CGAATTCAAG 60  
ACCAAGGCGT GCTACCTGAG CTGACAGCTT TTTGAAAGCC GAGCTGTTTC TGAACCATGT 120  
ACATACATGT TCTGAAACTT TCTCATCATT TTATGAGTAC TGTTTCATTGA GAGATGACAA 180  
TGAAGATTAG ATGAAATTGG AAATAAACCA ACATTGTTTA CAAA 224

SEQ ID NO:7184

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08422

SEQUENCE DESCRIPTION:

GATCTCTGCA GTATTAAAA GATGTACTCC CAATTAAA

38

SEQ ID NO:7185

LENGTH:67

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08423

SEQUENCE DESCRIPTION:

GATCTTTGGC AGTGCCAGCA GGTAAATTT TGACCTGCTC AATTAAAAAT AAACACTGGC 60  
GTTTAAA 67

SEQ ID NO:7186

LENGTH:117

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08424

SEQUENCE DESCRIPTION:

GATCTTCAAA GAAGAGAATG TAATTTATAC CATGAATATG TTATTTTTC ATGTTGGAGC 60  
ACTGAAATAC TTTCAGTTTG TTTTCTTATT GTTTAAATAA AATTTTAAAT TCTTAAA 117

SEQ ID NO:7187

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08425

SEQUENCE DESCRIPTION:

GATCTTTGTT ATTTTAGGGG GGAAATCACA TGGTATCTAG CATGGGACAA AGCAGCAAAA 60  
TAAACCAAAA GGACAATCTC TATTTTATAT AGAAAATAAA CATACTTTNC TGCATCCTGT 120  
GTACTTTAAG TATATCTATA TTTNTNANGG GTTCATACTG TGTTGANTTT NCCTNATGAN 180  
ATAGTCACTT CCCCAGTGTA TTTTAATGCA AATGCATATN CTATAANNTA N 231

02042

SEQ ID NO:7188

LENGTH:197

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08426

SEQUENCE DESCRIPTION:

GATCTCTGTT CTAAGAAAAG GAGTGTGCCT TGCATTAAAA AGGAAATATT GGTTTCTAGG 60  
 GAAGGGAGGA GGCTAAATAA TTGATACGGA ATTTTCCTCT TTTGTCTTCT TTTTCTCAC 120  
 TTAAGAATCC GATACTGGAA GACTGATTGA GAAAAGTTTT TAACATGACA TTAAATGTGA 180  
 AATTTTAAAA ATTGAAA 197

SEQ ID NO:7189

LENGTH:115

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08427

SEQUENCE DESCRIPTION:

GATCAGGAGA CAGGGAGGCC CCGCACATCA CACAGATAAA GTCAGACAAT TGTAATTAAT 60  
 ACTTTTGCTG CCTCAAGTTG TTTTAAAT AAAGTACTTT GAAATGCATG AGAAA 115

SEQ ID NO:7190

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08428

SEQUENCE DESCRIPTION:

GATCCTTGTT GGCATTATTC TAACTGATAC GTAGACACTT ACTTGGAAN NNNNGGACAT 60  
 TATATTAAAT GAGTGCTATC TGTGAAATG GTTATATTAG GTGGCTTGAC TAATGTTTTT 120  
 CCTATAATTG TATATGGACT GCATTTTAA AAAAAACCGC ATTTGCCTTT ATGCTAGATT 180  
 GTAAAAAATT ATATTAGAA GCATAAGACA TGTTTTNCCN TCATATGCTA GACTTTNCCT 240  
 AGCATTTTCGT ATTTCTGTGT TGTCAGTGTG TGATTTTNA ACCGGAATTT GGTTTAAAAA 300  
 AAATCTGGTG GTAATATATG TGAGAANTN 329

SEQ ID NO:7191

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08429

SEQUENCE DESCRIPTION:

GATCTTCATT CCAAATTTTA CTGCATGGAA ATGACTAATA ATGTGCATAA AAAGTTAACT 60  
 ATAAGGATGC TCACTGCAGG GTGGCTTATA TTAACACAAA TTCACAAACA ACTCCACTGT 120  
 TCCAGCACAG CAGTGTGTTG TAAATCATGA CATGTTTCTA TGCTCAATTA CTATCCAAT 180  
 TTTGAGAATT AGGTTGGAGA TATGTAATTN CCAATATGAA AATAAATTC CTATATNCTA 240  
 TTTAGTAAAA NTAATTCATA AATNTCCATT TTNCAAACA CTTCATGAAT TTNTTCCAAA 300

2153480

ATACANATGT TATCTATCCA TTTNGGAATT AGGANTGGTT NNNATCATTT TGN 353

SEQ ID NO:7192

LENGTH:352

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08430

SEQUENCE DESCRIPTION:

GATCTCAGTT TTTCCATCAA AATTATAATA TGCTCATGAA AATAATATTA ATTTGCCTTC 60  
CCTTTGCAAA CACCGGCAGT TGAAAGGAAA AGGACGGGGA ATGTGANNNN AAAGAGACCG 120  
CCTGGAATAA ATGTCCCCCT ATGATTCTTT AAGGCAGTGG TTCTCGAGCT TGAATTTTCA 180  
TTAGGAAATT CTGTGAGGNG NTTGTAACCA GATTCTGGG TCTGCCACAT GCACCTATCT 240  
NTNGCTGAAT TGCTTAATA GAATAATGAG AGCAAGTTTG TCTAACTAAT ACCAACCTGN 300  
CANCTTGAAT ANCAATAAAA TGCAATTTGG TACATAAATT ATAATGCTGC NN 352

SEQ ID NO:7193

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08431

SEQUENCE DESCRIPTION:

GATCCTGGAG AGGAGAAATC CTGGCCTCTG CTCATGCGCA GGTCAACAAC GGGCTGGAAG 60  
TGCGGTTNAG CTCTCTGCCA CTTTCTTCAA TGTA AAAAGT AGGCATCAA GATACGACTT 120  
CTACTATATA CATTTNTNTG TCCCTGAGAA CAGAGAAACG TAACCCTGTA GGGGACTGGT 180  
TACAGAGGAC CTCCTGGAGC ATCTGCCCCA TTCCTCCAAG TCCAAGCACA GCCATGCTGA 240  
GTGGAAGCNA GGCCACCATC TGAGTGGATT GGTCCCAAGT NTGTAATGAG GAAAGTGGCC 300  
AGGTGCCGGC ACAGTGCCCT TCCCAGAGCC TCAAGAAGGG CCATTNGN 348

SEQ ID NO:7194

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08432

SEQUENCE DESCRIPTION:

GATCACAACT CTCAGTCTAC CTGGAACACC CCACCCAACA TGCCTGCTGC CTGGGGACAT 60  
GCCAGTTTCA TCAGCTCTCC GCCCTACCTC ACAAGCACCC GAAGCTTGTN TCCAATGTCT 120  
GGACTTTTGG GTTCCATCTG GGCCCCGCAA AGCGATGTGT ATGAAAATTG CTGCCCCATC 180  
AACCCACCA CGGAACATTG GACCCACATG GAAAACCAAG CGGGTCGTGT GCAAGGAATA 240  
CTACCCGGGG TTCAACCCGT TTCGCGCCTA TATGAACCTG GACATATGGA CTACCACAGC 300  
GAATAGGAAT GCAAATTTCC CACTGTCTAG AGACTCGAGT TACTTGTTN 349

SEQ ID NO:7195

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

02044

CLONE:HUMGS08434

## SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCCTGAGCCA CTGCGCCCAG 60  
 ACCAAAAGTT TTTTAAATG GATGTTTTAC AGATAGAACT AAATTCCTCA TTTACCTCAC 120  
 TTAATTTCTG AAAACACTGT GTCCTCCAAC TGCTCTGTAT TCCCAAAGAT TAAAATTAGC 180  
 CTTGGGGAGC AGAGCTGGT CCTCGTAAAC CCCTGTGAGT GCCCAGACCC TTTGGAGGAG 240  
 GTTCTCAGTG GGCTTTTGCC TGCTCCACA GATGTAACCC ACCCTTCCTG CTGCTCCTAA 300  
 GACCACCATG AGGAAGGCTG GGAATTGGCT CTTGAATTAA NN 342

SEQ ID NO:7196

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08435

## SEQUENCE DESCRIPTION:

GATCTGCATT TNNAGGTTC GAGCCTGACC CCTGGAAGT ACCAGCGCTC GATTGTNAGC 60  
 CTTGGCCTGG GGTTTAACC TTGCCAGTGA AGTTTCGGTT TTAAAGTGAT TAAATGTCAC 120  
 TTCCTCATCA GTTTCACCTC TGGAGGTTTT CTTATCCTAC TCCCTGGTGC CAGGGACGTA 180  
 CCTGGGAGTT TGAATCAGGC CCATTTGAGC GTGGCAGCCG TGTGGGTGA AGGTCCGGGG 240  
 CTCGGTGAGG CACTGGGGGG GTTTTCGGGA GGAAAATGAA AATGCTTCTA GAATGAGTGA 300  
 ACCACATCAT AGCTCTCACT GTTTTTTCAA TAGCTACTTT TTTTAGCAGA CACAGAGCC 360  
 ACAN 364

SEQ ID NO:7197

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08436

## SEQUENCE DESCRIPTION:

GATCTCAAAA TAAATTCAGA AAGAAATAAA 30

SEQ ID NO:7198

LENGTH:196

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08437

## SEQUENCE DESCRIPTION:

GATCTGCCTA GCCAACTTTC TTAACCCAAG CCCAACTGA AAGTCTAAAA GATGTATTTC 60  
 TGGGGAATTA CCCACCTCA ACATTCTCAG GTTNCCAGT GTNCTCTGTC TGTNTCAGTA 120  
 TTTTAAAAAC ACTAATCAA TAATNCTCAA AAATCAAAGT CTGCTTTNAT NATCTGGTAA 180  
 TAAAATAATA GGCAAA 196

SEQ ID NO:7199

LENGTH:102

TYPE:nucleic acid



TOPOLOGY:linear

CLONE:HUMGS08438

SEQUENCE DESCRIPTION:

GATCCGCCCC TCTCCGTCTC CCAAAGTGCT GGGAATNACA GGC GTGACAN CCAAACCCGG 60  
CCTGATTAAA GTTAAATAAA TACTAGTTCC CTTCTCGTCA AA 102

SEQ ID NO:7200

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08439

SEQUENCE DESCRIPTION:

GATCAGTGCA TTTAGACATC CAGAAGTTAC TTCCACTATT GAGGAACTAT GTAGACATGA 60  
ATTTAAGCTT GTACATGTGC CAATCTTGTT AATGTCACTT GACCACTGAT TCACATAGAC 120  
AGACATTAAAC GTCTGATGCC TCAGGTTGAT GGC GAACTTN CTTCTAGTG TCTTAACATT 180  
TATGANCTTA TGTTTGACTT GAGGGGCATT TCAGCAAAGC TGTGNAGGAA AAGTAGGTTT 240  
TGGNCTGATG TCTGCTTTGT NCCATAGACA TTTTGGAGCA TAAGGNAGTA TCTNCTTCTG 300  
CTATATGTNC AGGGCTTGTG CCCAAATNAA TTCCTGATTT N 341

SEQ ID NO:7201

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08440

SEQUENCE DESCRIPTION:

GATCTNCTAC AGTTCCTNCA AGCCTAGACA ACCTAAGAAA CTTTACTATC AGCAGCTTAA 60  
GATGAAAATC ACAGACTTTA AGAACAGGCG AAGTTTTAAN TGTATATNNN 110

SEQ ID NO:7202

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08441

SEQUENCE DESCRIPTION:

GATCCAAAGA AATAATCCAA AATAAAAAGT TATATCCAAG ATAAA 45

SEQ ID NO:7203

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08442

SEQUENCE DESCRIPTION:

GATCCACAGT GGAGTTT TAG TAATTATATT TTNTTGATTT CTTCAATTTG TTTTCTGGTA 60  
TAAAGTAGA GATAATGTGT AGTCACTTCT AATTTAGTGA AACCAATTGT AATAATTNTG 120  
GAAATATTTT GTCTTTAAGT GTAAATATTT AAAAATTTGG CATACCCTAA TGTNAATAAT 180

AAAAAGAACT ATTTGCAGAA AA

202

SEQ ID NO:7204

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08443

SEQUENCE DESCRIPTION:

GATCGGAAAA CTCTGATTGA ACCATTCACT TTATTAGCCA GTAACTTTC TCAACCCAG 60  
AGCAAATCAA GCTTTCCTTT GCCTGGGAGG AAAANCATAG GGAAGCTCTAA TTCTGAGAAC 120  
TAAAAATCAG TAATTTCCAC AATTGTATGT TGAATAGTGA TTGCCTTTAN GNGNCTGTGN 180  
NCATGGAGTA ATATTACTAT TTAAATAGG CCATTGTAT CTACCTTTGG TCCTTAGGAA 240  
AATTCCTAAG GAAGTCAATT AATGCACTTT NAGATGTAA AAGTATTTGG GCTAAGGTTA 300  
TTATTGCCTG ATATGGAAAT AATTATNNTT CTGNTTN 337

SEQ ID NO:7205

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08444

SEQUENCE DESCRIPTION:

GATCAGTGAC AATTACAGG AATGTAGCAG CGATGGAATT CCCTGGAACA GTTTTTGT 60  
TTTNTTTTGT TTTTGTGTTT TGTGGGGGGG GGCAACTAAA CAAACACAAA GTATTCTGTG 120  
TCAGGTATTG GGCTGGACAG GGAAGTTGTG TGTGGGGGTG GTTTTTTTCT CTATTTTTTT 180  
GTTTGTGTTCT TGTTTTTNA AATCTGCCTC AATCACTTTG TCTTTTANAA 240  
NGNTTCCACC TCCAGTCCTN TCTCCTCCCC CCTACTCAGG CCCTTGAGGC TATAGGGGGT 300  
TNCTTNGAGG ACCTCANCAA AATCCCAATC CAAGTNAACC TTTGCACAN N 351

SEQ ID NO:7206

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08445

SEQUENCE DESCRIPTION:

GATCTATTTT TTTAAAAGAT ATTTGTGCAG AACTGCATG TAACTCTAAG TTTTACTCCT 60  
AACATACATA TGTTTGGGGA AGTATTCTAT TCTATACTTG CCAATGTGGA GAACAAAATA 120  
GTTTTTTTAA GAATGAAGAA GTATATATAT CCATTCTGTA TTTTACGTGC AGCAGAATTA 180  
TCTTCCGTAG GATTTTTTTG TGTATTCACA AGGTGATATT TGTATTGTAA AACAATAATG 240  
GTGAAGGAAA TAAAAGGCT TTAAAAATTT AAA 273

SEQ ID NO:7207

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08446

## SEQUENCE DESCRIPTION:

GATCAGATTT TTAAAAAATG GATTTCAT ATAAATAATA TTATCAAAAA AGGATTCTC 60  
 ATATAAATAA TATTATCAAA AAAGCTGATT TTTAAAGTTT CTCCCAAAGT CTTATTCTAG 120  
 TAATTATAGA GACCTAGGTA ATGAGTGGCA GATATATCTG CCTTCAGAT ATGCCGTAAT 180  
 GTGAAAAATA ACACAGTCAT GTGATATTCT TNATTAATA AACTGTGTT GTTTTATTT 240  
 TGGAGTAGTT CTCATAATTC ATTGGTAGGG AACTATCCAG TATTATATT CCTATGTATG 300  
 TNTATCAGNT TAATTTGAG GCTTGGAN 328

SEQ ID NO:7208

LENGTH:145

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08447

## SEQUENCE DESCRIPTION:

GATCTGTACA TACAGTGTTA AGAATGTAGA TATTAATAATT GTTATATTGA GCTGTTACAT 60  
 AATATTAAGA CTCAGAGTTA AGTAATTTCA CTGAAATTGA TTGCTTTTGG TGTCTTGGAG 120  
 TCAAAATAAA TAACTGAAAT CTAAT 145

SEQ ID NO:7209

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08448

## SEQUENCE DESCRIPTION:

GATCTGTTNA CATAAGCACT AGTCACAGGA CTACTCGTGA ATTTTCATCA TTTATTCTAT 60  
 TGTGTTTATT CATGATATCA CCTTAGTAAT TTTTGAAAAA AAAAANGTAC CACACTGGC 120  
 CAAANGCTCA TCAGGCTGAT TGTTTANCTG TNGCTGATTG CTTATCTTTA TATTGTATGA 180  
 CCCNGGGGNT NGNTTTGAAN GTTATATTAG GTTTGAAATG ANTTATN 227

SEQ ID NO:7210

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08449

## SEQUENCE DESCRIPTION:

GATCTTTGAA CTCTGCAATA TGAAGCATAT ATGTGAGTGC TTAGCTTTCA CTCTCTTTCT 60  
 GTGTGTGTGT GTGTGTATAC AGATACTAAG ACACAGATAC ATTCACATAT ATACATCTAA 120  
 ATATATATAC AGTACAGTCC ATATTCAGAT TTCTTCAAGG TTATGGGTCT ATTGTTTAAA 180  
 TTCGGAATCC AGTCAAGGAC AACACATTAA AATTGATTGT TTTGCCTCTA CAGTGTGTTT 240  
 TTTTGGTTT CATGACATTG ACTTTGATT GAATAGGTCA GACCATTTC TGTACTTTAT 300  
 ANAGGCACTT TGTAGATTG TCTGATGATT TGN 333

SEQ ID NO:7211

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08450

SEQUENCE DESCRIPTION:

GATCAAGAGA GTTCGATTGG CCAAAGAACA GGAATCCCGG GCAGATTGTA TCAGTGAGTT 60  
TATAGAATGG CAGTATAATG ACAATAACAC TTCTCATTGT TTTAACAAAA TGACCAATCT 120  
GAAATTAGAG GATGCAAGGA GAGAAAAGAA A 151

SEQ ID NO:7212

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08451

SEQUENCE DESCRIPTION:

GATCTGACAG ACGTCAATAC CTGCAGGCGT CTACAGAGAG GAAATTTGAT AAAAATATTT 60  
TAGTCACTGA CTACACTACC ATTATCTGAA GCATTGAGAT AAGACTTAGC AGAGAATGTC 120  
AGATTTTGT TTCAATTATA ATTTAGAAA TGCAAAATCT TATTTTCT AAGTTGCTTA 180  
TTGTCTATAT AAATGTTTAA TATCATTTAA AAACATGCAG AATAATACAC CTGCAGAATA 240  
AAAGAGCTGA AATTAAATA TCTTTTCAA TNAAT 275

SEQ ID NO:7213

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08452

SEQUENCE DESCRIPTION:

GATCACTTGA GTCCAGGAGT TTGGTGTTAC AGTGAGCTAT GATGGCACCA CTGCACTCCA 60  
GCCTGGGCCA CAGAGTAAGA ACATGTCTTT AAGAAAAAAA AAN 103

SEQ ID NO:7214

LENGTH:144

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08453

SEQUENCE DESCRIPTION:

GATCTGTAGA CATGAAGGCA AAGCTCTTGT ATTTTTTTT CATCCAAACA CCTCAATTTA 60  
TTTTATAAAT TCGTTCATTT TTCCTGTTAT GTTTTATATA ATATATGGAC TAAACAAAAT 120  
AAAATAACAG TGCAAAAGAG GAAA 144

SEQ ID NO:7215

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08454

SEQUENCE DESCRIPTION:

GATCAGAAGA GGATGACAAT GGCAACAAGT GTTTGGAAGT TCCAAGGTGT GTTCAAAGAG 60

2153480

GCTTGCCTTG AGGGAGGGCT GGAATCTGTC TTCCCTGACT CGGCTCCTCA GGTCTTTAGC 120  
CTCCACCTTG TCTAAGCTTT GGTCTATAAA GTGCGCTACA GAAA 164

SEQ ID NO:7216

LENGTH:332

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08455

SEQUENCE DESCRIPTION:

GATCTGAAGT CCCCCAACC CTCTCCAAGT AAAGTAGTTT ATTAGAAGCT CTTAAGTCTT 60  
TAATAGACCT GCATATTTCC TTCCCTTATG ATTTCTATA AAATATAGTT TATGGTGTTA 120  
TATTTTAAAC TGAAATACTG TACATATGTA AATAACTCTT GACAGGAAGA AAATATATTA 180  
ATGTAGTATT TGCCCCCTAT CAGTGAGCTG AACAAATACA TCATTAAAT CTATGCTGCA 240  
CTTTGAGTTG CTACAAATAT GGTTCGNITT GTTTATTTT GAAAAATGTG ATAAAGAAAT 300  
CTAAAGANTG NNNAANNNTAA NNNNNNNNG NN 332

SEQ ID NO:7217

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08456

SEQUENCE DESCRIPTION:

GATCTGTACC ATCCTGTTGC TGCTGTATGC GTTCCATTGA TGGGACATCT TCAGGGACTC 60  
TTGACAGCCA CCGCTTTCAC ACCCTGGTCT GGAATAAGGA AACATCGGAG GGAGAAGTTG 120  
ACTGTCTTGA TAATTAGCCT GACCAGCAGG ATGAATGCAA GACTGACAGT GATGGACTCT 180  
GTGACATGGT CAGGTTGAGC TGAAGCCACA GTTCTCTGT GCTGTGTTTT CTAACACATT 240  
TTTCTGTTTT TAATTAAAAA AANNNNNNNA GGGTAAA 277

SEQ ID NO:7218

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08457

SEQUENCE DESCRIPTION:

GATCTTAAAC TCCTGACCTC AAGCAGTCTA CCCCCGTTGG CCTCCCAAAG TGCTGGGATT 60  
ACAGGTGTGA GCCACTGCAC CCAGCCAAGT TTATGTATTT TNATTCTTTT TCATGAATGT 120  
GATTTGTAA ATNAGTGATT AAATATAATT TTNATATATT TGTATGACTT TNCTGTAAAT 180  
AAAATTTAA ATCAGAAA 198

SEQ ID NO:7219

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08458

SEQUENCE DESCRIPTION:

02050

GATCTGCATC TNACGCCAC TGCACACCGT TCCTCTCCAT CTGCCCTTCC CTCCCAGGCC 60  
 CCCGGTCGGG GGAGCAGGTG TGGCAAGTGT TAGGAACTCC CTTCTGGTGA CAGCTGGTCT 120  
 TCCTAGAGTG TTGCTGGTAA CTATCGCCTC TTGGTCTTCT GACATCATG CCAGGAACGG 180  
 GGCACTTTTT CGTCTTGTAG TTTGGCCCTC GGGTTTCCTC ACTAGGTATT GTGTAAGTCC 240  
 CTCAAAAAAA GGTTTATGAA ATGCTGAACC TCAGGTTTCA TAGACGTCTT TGTACACTAA 300  
 AAATTCTGCA GCAGGAATAT TTTTAAACAT TCGCAGTTTT TTGTAAGCTA TATTTTTTGG 360  
 ATATTAAAT TGCTATNTNA AAANTTTTAA ANTNAATTTT GCTAATNNN 409

SEQ ID NO:7220

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08459

SEQUENCE DESCRIPTION:

GATCTCCTGT TCCGTTAGAA ATACGGTTAT GTTGACATTA TGGTTACTGT GCTTGTGGTT 60  
 TTGCAATAAA CATGTATTGA AAGCAAA 87

SEQ ID NO:7221

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08460

SEQUENCE DESCRIPTION:

GATCAGATAA AATAACTCCT GACAGAAACT GTNNGGAAAC CAGCTGAATG TTTGACCTGA 60  
 TGACTGATGT TGTATGGTTT ATGTTAAATG TATATTCTTT TAATCAATGA ATAAAGCATT 120  
 AAAAAATGAAA 130

SEQ ID NO:7222

LENGTH:251

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08461

SEQUENCE DESCRIPTION:

GATCAGAAAC ATTTACAATC TATTCTCTTT GAAGCCTGGC ACCTGGAGGC GTCATCTGTA 60  
 TGAGANNNNN GGACTCCACA ACCTTTTATC ATAACCCAGA CATTCTTTTC TATTGATAAT 120  
 AACCAATTGC CAATCAGAAA AATTAAAAAT CTACTTATAA CCCAGAAGCA CTACCCCGCA 180  
 ACCCTTGCTT GCTTCAAATT GTTCCAACCT TCTGGACCGA ACCAATGTAT AGCTTAAATG 240  
 TATTTGATTG N 251

SEQ ID NO:7223

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08462

SEQUENCE DESCRIPTION:

2153480

GATCGGTGCC ATGGCAAGCA CACCCTCAGT CATCATCCTC ATCAGGACAG NCAGCCNNGA 60  
ACTCAAGTCT TACGCTTTGG GAGTTCTTTT TCTCNTCCTT CGTTTGTGG GCTTCATCCC 120  
NCCACCCCTC ATCTTCGGGG CTGGCATCGA CTCCACCTGC CTGTTCTGGA GCACGNNNTG 180  
TGGGNGAGN 189

SEQ ID NO:7224

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08463

SEQUENCE DESCRIPTION:

GATCTGATT GGCCTGGGAC CAGTGTTCAG GTTGGTTTGG TCTTTATTAA AAATCACAAT 60  
ATTCCGAAAA CAAAAAACC TAGGAGATAA ATGTAAA 97

SEQ ID NO:7225

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08464

SEQUENCE DESCRIPTION:

GATCTGAAAT NAGAGGTTTT GGTTTACCCT ATCTATGGTA TGTCTTAAAA ATCAACGAAG 60  
ATGTCCTTGT CTTTTTTNAA TTTNCCGAGT GTGTTGCAGT TCCACAGCTC ACTGTTAGGT 120  
GGCACATACC CCAAACCTGAA AACCTGACCT CGTAGGGCAT GAGTCAAAAG ACAGGTAGGC 180  
ACAGGACAGG GCAGTGGTGA CACTACAGCT TTCAGGGTTC CCAGCCTGTC AAGAATGAGC 240  
ATGTCTTAGC AGGGN 255

SEQ ID NO:7226

LENGTH:63

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08465

SEQUENCE DESCRIPTION:

GATCAAATTT GGAAACCTA ACATTGAGAC AATACTATAT TAAAGTATCT CTGGTACCCG 60  
AAA 63

SEQ ID NO:7227

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08466

SEQUENCE DESCRIPTION:

GATCCAGCAA TCTCACTGAG TATCTAACCA AAGGAAAATA AATCACTATA CAAA 55

SEQ ID NO:7228

LENGTH:220

02052

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08467

SEQUENCE DESCRIPTION:

GATCCAAGAA CCCTCTCTTG GGGTCTGAAT CATACCCCTT TCGGGTTACA GCCTATCACA 60  
GCATTTTAA TCCTATGCAC TTAACACTTC TGTATAGAAA AAGAACATCA CACTAGAATT 120  
TTGATGACAA TAGATGACAA TATGATGAAT NTTATTATAT GAAGTGTTAA ACTTATTAGA 180  
GCAGATATGG TACTAAAAAT AAAATCCCAC CTNCNCTAAA 220

SEQ ID NO:7229

LENGTH:114

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08468

SEQUENCE DESCRIPTION:

GATCGCGCCA TTCCACTCCA GCCTACACGA CAGAGTGAGA CTCCATCTCG AAACAAAAAA 60  
AAGACTTGAT TTTATTTTC ACTATCTTGA GCATAAATTG TTCTAAGAGT GAAA 114

SEQ ID NO:7230

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08469

SEQUENCE DESCRIPTION:

GATCTTATAC AGAGAAGTAT TTTATTAAAA ATTCAAAAGG GAAGACTTTT ATGTGCTCAT 60  
TTTGTAATTT TTAATTTTAA ATATCTTTAC ATTGTCTGCC AATTAAAGTG TTTTAACTT 120  
GCATTGGAAT GGNCTCTGAA TGTATTNTN TGGTGTNACG TTATCCGTAG ATTTCTAGCA 180  
TGANGTAGC CTCACGATGC TGTGCAAAGG ATTTTNAAT ATGAGAGTCA CTGANAGAGT 240  
TTAANCATCT GTCCATGTGA AATGCTCTAT GGGN 274

SEQ ID NO:7231

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08470

SEQUENCE DESCRIPTION:

GATCCTTTGT TCACGGCTCT CCTTAATGAC TGAGTGAACA GTTCCTATCT GTATATTTGA 60  
CTAAACCTTT TCCTAAGCTA TCTCTCATGG TTCCTATGTT TTTTATCAT AATTAAAAGC 120  
AAAACCATCT GGAAG 135

SEQ ID NO:7232

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08471



2153480

SEQUENCE DESCRIPTION:

GATCGAGCGG AAAATTCCAG AACTGTACAA GCCAATATTC AGAGTTGAGA GTCAAAAGAG 60  
AACATTGTGC TGTCTGTCAG CATATGTATA TCAGCTACAA AATATATTCA ACTTTGACTT 120  
CTTTTGACAA AGGACTTTAG GAAAAAGAGG AACAAAGACA TTATTGAGA ATTAAATTAT 180  
ATATTTTAAN TATGACTGTG ACCTTGACTG ATAATAAAGA TGAATAAGA NTTGCAAA 238

SEQ ID NO:7233

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08472

SEQUENCE DESCRIPTION:

GATCAGTTCA GCCAAGCAAC TGACAAATCA AAAACCCACT TGTCAGTTCT GTAAAATAAT 60  
TTGGTCAGAA A 71

SEQ ID NO:7234

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08473

SEQUENCE DESCRIPTION:

GATCTAGAGG GCTTCGAGTG AAGCCAATCA TGTGAACGA AACTGGGTTT AGTGTAGATG 60  
AANTAGAGTG AGGCGTATGC AGTCATAAAA TGAAGGGTGG ACAGGAGATT ACATTGAAG 120  
AAAGGATAAG CACTCAGACT TGGTCTCTTT TAAATTAAAA TATTTCTTTT CTCATGTGCA 180  
AATGTATATC AAAGACTTGA ACAGGTATTC TCTTGAAATT TGAGGATTTT TAGTTTTTAA 240  
TGCTGNCCTT GCTTANNATT AANNATGNGT NGCCTATTGG TCCCAAATT GTNTGGGGNC 300  
CCTAANNNGT NCCCCTNGAG GGGTNCATTT TTGAAGGNGG GTTANGN 347

SEQ ID NO:7235

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08474

SEQUENCE DESCRIPTION:

GATCTTGTGT TTGCTATCC TTTTACTGT AAAATGTAAA TATTTTAAGG GATATTTTGA 60  
TTCTAAATAT GATAAATAA TTTCTCACCT AAA 93

SEQ ID NO:7236

LENGTH:417

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08475

SEQUENCE DESCRIPTION:

GATCCCAATT CAACTTATCC AGAATAATTC TCTCCATTCT CAAAATTTC NATGAGGAAC 60  
ATNNNNAGAA ACTGTCTCTT GCCAATACCT TTAGTACTGG AATTCTCTCA TCTTCTCAA 120

02054

CAGTCTTGGC AGCTAGGAAA AAACAGCTGA TTGCAATACA ACTCAAGTAT TTTGGATGAG 180  
 CCTTTACGGT AGCTAAAAAC CCATCCAAAA GACTGCTAGC CAGAGCAAAT GTTTCTGGGT 240  
 AAAGGTTGAA TTGGTACTTG AGTTTGGCCA GCCATTGANT TACTTCATCT CTCTGGGATG 300  
 GNGAACATTC TGATTGAAG GCATTTTCCG CACATTCAC TCCACATCT GTGNCTCCCT 360  
 AGTGATTGCC TTTTCCACCA GGAANGCCAA TCTCTGGTTT TCCAAAGGCC CTNGGAN 417

SEQ ID NO:7237

LENGTH:80

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08476

SEQUENCE DESCRIPTION:

GATCAGACCC TCCTGTGGGC AGGGTTCTTA GTGGATGAGT TACTGGGAAG AATCAGAGAT 60  
 AAAAACCAAC CCAAATCAAA 80

SEQ ID NO:7238

LENGTH:409

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08477

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAT TTGCGCCTGG 60  
 CCAGAAAAAT ACCTTTAAAA AGCTGGGCCT GTTGGTGTAC CTAAAGGATA ATACAGATGT 120  
 TCCTCTCAAC TTAGCATGGG GGTGTGTCT CAATAAACCC ATTTTAAAGT TGAAANCCTT 180  
 ATGTGGAAAA TGCATTTTAT TATACCTAAC CTACTAGACC TCGTAGTTTA GCCTCCCTTA 240  
 CCCTACAGGT GCTCAGAACA CTTTNGNAGG CCCTACAGTT NGGGCAGTCA TCTAACACAA 300  
 AACCTATTTT ATAGGTAAAA GTNGTTTGAA TATCTCAAAG NTAATTTATT TGAATGGTTN 360  
 CCACTTGAAT NGCGGANTCN ANGTGTTTNN NAACCNGTNT GGTNNANN 409

SEQ ID NO:7239

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08478

SEQUENCE DESCRIPTION:

GATCTCATAG ACTTAGTACA AAAAAAGGTG AAATGTCTTG ATATTTTGT ATATTGATTA 60  
 TTGAAATAAC CTTTATGTT GGGCTAAATA CAAATATGTT ATTAAATNA ATTTAACAAC 120  
 AAA 123

SEQ ID NO:7240

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08479

SEQUENCE DESCRIPTION:

GATCTGAGGG GGAGAGGGAC GGGTCGGGCC AGCTGGTCAG GAAGGGCCTT GAGGGCCTGC 60  
 AGCCAAGAGT AGCAGTTTTC TCCCCCGTCT TGTGTTCTT GGTCCCTGGA CCACAGGGCA 120  
 CACAGGCCCTG GACACCATAA GGCTGGTGGG CTTTCAGAAT TGTGTTAGGG NNNNNNGAGT 180  
 GGCAGGTTCC TGAATCTCGG TCAATATAGT AACCAGCAGG ACAAGAGGTT CAGGAGGAGC 240  
 CCACATCAGA GGCTTCTAGG GCAAN 265

SEQ ID NO:7241

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08480

SEQUENCE DESCRIPTION:

GATCTCTTGA ATTGCCATCT GTCATCTAAG TCTAAGGCTT TATGCTTAAT GANTTGTGGT 60  
 GTACTAGCTG GACTAGCTTC AGGAATGTCA GTGTGTTCTA CCATTAAGGT CAGATTGTCT 120  
 ACTACATCGA GATGGTGGTT GTAGTTACAG CTACTTTTAG AAACATGTCT ATTTTTTAAA 180  
 GACATAACAC ATGAATGAAG AAATTCAGAA TTTGGAAAAA AGGTCCGTAA TGCCTGACAA 240  
 AGAAAAATGT TCTCCTGAGG GTCTN 265

SEQ ID NO:7242

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08481

SEQUENCE DESCRIPTION:

GATCCCAGCA CCTTCACATC TTCAGCAACC CAGNNGNTCA AATTTGACCT GGTGTTATTT 60  
 TAGCCCCAAA TTTATGACAT TACACAATAT TAAATGTAA ATGTTTCTTC ACCCAAATA 120  
 CTTCTAGATA TNCTNGNN 138

SEQ ID NO:7243

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08482

SEQUENCE DESCRIPTION:

GATCCTTTGA GAGATGGTTT GACTTTCCCC GAGCAAAGAG CCTGCGTTGA AAAGCGGGGG 60  
 TGGAATTCAG TCCTCACAGA TAATGAGGGG ACAANACCTA ATTGANCCGN GTATTGCCGG 120  
 GAAGGAAAAG GCAACGGGCC AAGCCTTTGA CAGGGTGCGA AACTGACTTT NATCATCGTT 180  
 ATAGTCTTTA AATCCTGGGA AACGAGTTGG CAACCCCAAATAAAGAAGT GTAATGACGT 240  
 CTGATGACTT CACCCAAATA CAGACCATTC CAN 273

SEQ ID NO:7244

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08483

## SEQUENCE DESCRIPTION:

GATCTATAAA ACAGACAGAG ATAAGTACAA CAGAATATCT CGGGAATGGA CTCAGAAGTA 60  
TGCCATGTGA TGCTACCTTA AAGTCAGAAT AACCTGCATT ATAGCTGGAA TAAACTTTAA 120  
ATTACTGTTA AA 132

SEQ ID NO:7245

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08484

## SEQUENCE DESCRIPTION:

GATCCGCCTG CTTCAGCCTC CCAAAGTGCT GGGATTAGAG GCGTGAGCAT TCATGTCCAG 60  
CCAGCACTGT GCTGTTTTTG ACATGCATGT TCTCATTGAN TGCCATGCGG CAGATTCTAG 120  
GATTATNATT ATNCTCACTT TACAGATGAG GGAGTGAGAC TTAAAGGGGT TAGGTAATTT 180  
GCCCACATCC CCAACTAGC AAATGGTAGA GCCAGGATTG GAATTTGTTT AGGCTCTTAA 240  
CCATTGCACT CTTTCAAAT GTTAAAAATA ATGTTGTGTC TCATTTTAAA AAATTAATA 300  
AAANCTCTTT GGACCAAGAA A 321

SEQ ID NO:7246

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08485

## SEQUENCE DESCRIPTION:

GATCTCCCCA TTTGGAGACA GAGCCATTG GATATTTNCC CCTTNACTT CTCCANNCC 60  
TGAAGCGTTC CTTCCTGGA GGAACCTTTT GGTGTCAGGG CTAAACTN 108

SEQ ID NO:7247

LENGTH:139

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08486

## SEQUENCE DESCRIPTION:

GATCTCAGCT CAAATATTCC TTATGCAGAG ATGCCTTCCC CTGATTCCTT AAACCTAGACT 60  
CGGACCCCTC TGTTCTGCAT CTCTGTGGCA TATCATCTGC CCCTTTTGTA AAACCTATAA 120  
ACTTGTGGTT ACTTGTAAT 139

SEQ ID NO:7248

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08487

## SEQUENCE DESCRIPTION:

GATCATGTGA GCTCAGGAGT TCGAGACCAG CCTGGGCAAC ACAGCAAGAC CCTGTCTCTA 60  
TTTTATTCTA TGTTTAAAA TTTAAAAATT AAAAAGAAAA AAGAATAACA TTTTATAAGA 120

AAATATTTTA TGAGAGACTT ATAAAAGAGA CATTAGAAT ATGAAGTAAT ATATTNCGTA 180  
 TTCCTTATCT CAATAATGCT GTAGGGAAAA ANCAATTGAA ATAAAAGCAG TAAATGAGTG 240  
 GAAA 244

SEQ ID NO:7249

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08488

SEQUENCE DESCRIPTION:

GATCTAAGT GCAGTGTATT TTCTAGGCTG GAAAGTGGAA AATNAAATAT ATTATAATCT 60  
 TAGGTTACAT AAAGTTTCTA AAGTTTCAAA GAGTCTTGAT ACAAATCAG TTTATATTCT 120  
 GAAAATATTT ATAATAAAGT ATTCTAATTT CTAAT 155

SEQ ID NO:7250

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08489

SEQUENCE DESCRIPTION:

GATCGCACTG GAAGATTTTA TAAAAGAATT TTTGTGGGTC GGGGGGACAG TAACTTCCT 60  
 GGGCCACGTG GGTCCCTCAG GAGTTTTTCA GGCAAA 96

SEQ ID NO:7251

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08490

SEQUENCE DESCRIPTION:

GATCTNATAT TGAACCCAT GCCAAATAGC GTGGCATGAG GCCAGAGAAC AGTGCTTNCC 60  
 TTCCCCGCT CCACCCAAAT TGTCCCTTGC TCTNGATATT ATGCCAGTNC CATATTTN 118

SEQ ID NO:7252

LENGTH:391

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08491

SEQUENCE DESCRIPTION:

GATCTGAAA CTATTTGGNT TTTNTTTTCA ACTTTTCATT TGGATGTTTG GCGTTGCACA 60  
 CACACATCCA CCGGTGGAAG AGACGCCCGG TGAACACACC TGTTTGCTTT CTAAGCCAGT 120  
 GAGGTTGAGG TGAGAGGTTT GCCAGAGTTT GTNTACCTCT GGGTATCCCT TTGTNTGGGA 180  
 TAAAAAAAT CAAACCAGAA GCGGGGATGG AATGGATGCA CCGCAAATAA TGCATTTCCCT 240  
 GAGTTTNCCT GTTAAAAAAA ANTTTTTTTA AGTAAGAAAA AAAAAGGTAA TANCATGGCC 300  
 AATTTGTTAC ATAAAATGNC TTTCTGTGTA TANNTTATTC CTAAGANATC CTGTTTATAT 360  
 AANNNTTCAG TAGNTGGAGA AACTTTCCAT N 391

2153480

SEQ ID NO:7253

LENGTH:385

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08492

SEQUENCE DESCRIPTION:

```
GATCATGAAT CTCTAATAAA TTAAATCTC TTAAACCAGT AGGTGCTTAA TATTTTAA 60
TTTGATTAAT GCCCATTTAA ATCTCATGGG TTCTATTAAT AATATATATA TATAGGGCCC 120
CAATCCATTG CCATCAAATT GCCCTTGGAC TTTTCCAAGG TATATTATGG GGTTTTATGC 180
AAAATTCCTA GCTACCATGT AACTTTTTTN AACCATTAA CAAGGAGGGG GAACTGTTTC 240
CTACCTTCTT TACATGTTGT GCATTGTTGT GGTCCAGAAA TGCCAAACCT TTTAAAGAT 300
GGTGCAACTT TGAGTCCTTG GCTTGACTAT ACAGGNCCTG AACTTCATGG CATATCAACT 360
TTGNCATATC TGCAGGTGNG CTGTN 385
```

SEQ ID NO:7254

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08493

SEQUENCE DESCRIPTION:

```
GATCACCATT TTTTCCAGG CTTTCTGCCT CCNAGATGTG GCACCATAGT GCGGTGCCCT 60
GTGGCTTCAC CGCCCTACTT CCACCTCCGC CCAGCCTGTA ATGTTTATAT AAGCAGCCTC 120
AAGGACCAAG AACCATCTGC GAAAGGACAC ACACAGGAAA TTCATAAAG AAATCTGANT 180
GGNTAAACC ATGAAAAAA GTATGCTTCA TTAGTAATTA AAGAAAGGCA AATAGAGCTG 240
GAAGCNTTTT NCCNTTNGCA AACCATAACA GAAAANNNTA NGACCCAATA TTGGCAAAGA 300
GACTACTGAA AANCCATTCC CACATATTGC GTGTGGGNGT ATACATCGGT GCAGGCTTCC 360
TGGATGACAG TTGGGTGATA TGTGTCATGT GGCCTAANAG CCTCCATGTC ANT 414
```

SEQ ID NO:7255

LENGTH:207

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08494

SEQUENCE DESCRIPTION:

```
GATCCTGGTT TTGTGATTGA CAATATTTCA TGCTCTGTAG TGAGAGGAGA TTTCCGAAAC 60
TCTGTTGCTA GTTCATTCTG CAGCAAATAA TTATNATGTC TGATGTTGAC TCATTGCAGT 120
TTAAACATTT CTNCTGTTT GCATCTTAGT AGAAATGGAA AATAACCACT CCTGGTCGTC 180
TTTTATAAA TTNCATATT TTTGAAA 207
```

SEQ ID NO:7256

LENGTH:412

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08495

02059

2153480

SEQUENCE DESCRIPTION:

GATCAAGAGT ACACCTTCCTG GCAGTGATTA AGGAGTGTGT ATCTAACAGA AAAAATATAT 60  
 ATACCCTGTG AACCCGAATA TGGAATTCAG ATTGTTTCTG CCCTCAGTAT CATACTTAAA 120  
 AAACAAGCAT ACAACAAAC ATAAGGGAAC AAACAGCAAC CATAACAAA ACAACCTTT 180  
 AAAGGTGGGT TTTTGCTGTG ATAAATGAAT ACGGTACTCT GAAGGAGAAA AAAGTTTCTC 240  
 AAATGAGCTT AAAGTGAAG TGATTTAAAA NTTAGAGAAT ATAATTCTTA ANGCTATTGA 300  
 AAGTTTCAAC CAGAAANCCT CANGTGAATT TTGTATGTAA ATGGCATCTT GNNTGTAAAGT 360  
 TCTGTGNTTC TTTAGGCAAC CAATTAGCTG GAACCTTGGT TTTGTGTGGT TN 412

SEQ ID NO:7257

LENGTH:406

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08496

SEQUENCE DESCRIPTION:

GATCTGCAAA TCAAGCTACA TGTATTTGTG TATAAGACCC TGTGTTTCAAG ACTGGGTGAC 60  
 TTTTCTAAGA AATATGGGGT TTAGAATGGG GTTGACTGTA TTTNTAAACC TAATTCTGGA 120  
 GAGAAGATTG TATTTNTAAC AGTTTTTTGG GTTTGGCTTC CTTCTCATAT TTCTTTAGCT 180  
 TTGAATTTT ACTAAATAAA TTTCTCCTG ATTAATTTT TTTTCCCA TCTGGGAATT 240  
 TGAAATCTCG GTGCTTACTG TNACACCAAT TTGTCCAANG GGTGAAATC ACTTTAATGC 300  
 CAGACCATGG TAATTTGCAG CCATTTCAAG CAGGTGGTGG NCCTTTTNA TACCATCGTT 360  
 ACGGGGTCCC NTTAAATATT CTGGGGGGTG ATGTAAATNT AACGGN 406

SEQ ID NO:7258

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08497

SEQUENCE DESCRIPTION:

GATCTCCATT TCCGCCAGCT GCCTGTAGCC ACGTGGCATC CTGCCTGTGG TCTGGGTGAG 60  
 ATTTACTGTG ACCAGATGTA GAATAAATGT GTCTCATCCT GCATTTTTTT TCTAAA 116

SEQ ID NO:7259

LENGTH:435

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08498

SEQUENCE DESCRIPTION:

GATCACTTTT TAGTTAGTTT GAAACCTGCT TTTAGTTTAT ATGTAGTATT TCTACATATT 60  
 GTTACTTAAA TTGAACAAAC AATTTACTTT TNAATTTTNC TTCTTCCTTT TAAAAAAGA 120  
 GTATATAATC TGACAATGTT AGTACATCTT TTAGAAGGTC ACTATAAAGT TGCTTTCCCT 180  
 ATTTATTTGG AAAGGATTAT TTCCTTATNA TTTTAAAAA TCTTTTAATT NNTGTCTTNT 240  
 CAAGTAATTT TATCATTGTA CCAAGCCTAA GGATGAGTGG CAATTTAAAA GNCACAAGGT 300  
 GTGCATCTTC TATCTGCAAA TACTCCAAAC AGAANTTATT CCAGTTTGTG GATACTTTGA 360  
 GTGGCCCAGG GAAAATGTGT ATGGTTTTAG TGTNCTGAAT TGNCAATCCA AAGGGTGCGG 420

02060

AAGGTTNCTG TTAAG

435

SEQ ID NO:7260

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08499

SEQUENCE DESCRIPTION:

GATCAAAAAA GGAATGGATA TACAAAGTGT TTTGTGAAAT AAAAGCTCCC TAAATGGTA 60  
AA 62

SEQ ID NO:7261

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08500

SEQUENCE DESCRIPTION:

GATCGACCA CTGCACTCCA GCCTGGGCGA CAGAACGAGA CCCTGTCTCC AAAGGAAAAA 60  
CAAAAAAGAA GAATAAATA ATTTGGATGA AAATCATGTT TATTAAATA GTAATGTCAT 120  
GAGACTATTA AAGATGTGCC AGAGTTTCAA TGAAAATCAT TAAAGTAGGA CAGCTAAGAA 180  
ATTAATATTA ATATCAAANT TATTGATANT CTAAATTAT TGATTATTCC TTAACGCACT 240  
CCATTCTCCT TTTACATTTT ATCATGTTTC TTTGAATAT ATGANTTGGC AAAGGCCTTG 300  
ATGAAACTGA GTACTAAGAT TTGGTCCAGN GTATGTCAGG ANGNCACCTC AGATTGCCAT 360  
TTTAAATAAN GTTGTNCATG ACCAATAAA 389

SEQ ID NO:7262

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08501

SEQUENCE DESCRIPTION:

GATCCCGTGC TACATCTCCT CCCCGGACGA GTGCCTCTGG ATGGACTGGG TCACAGAGAA 60  
GAACATCAAC GGGCACCAGG CCAAGTTCTT CGCCTGNATC AAGAGAAGTG ACGGCTCCTG 120  
TGCGTGGTAC CGCGGCGCGN CGCCNCCCAA GCAGGAGTTT CTCGACATCG AGGACCCATA 180  
AGCAGGCCTC CAACGCCCTT GTGGCCAACT GCAAAAAAAG CCTCCAAGGG TTTCGACTGG 240  
TCCAGCTCTG ACATCCCTTC CTGGAAACAG CATGAATAAA ACACTCATCC CATGGGTCCA 300  
AA 302

SEQ ID NO:7263

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08502

SEQUENCE DESCRIPTION:

GATCGGAAGG TGGTGAATCT TTCCAGAGCA GCTGAAAATN TCAGCATGGA GACAGTAAGA 60



AAAGAGACGG GGTGTGGATA AGACTCTGCC ACCGTGTCAC ACTAGCATAG GAGGCTGCAC 120  
 GTTCATTGTG TGTTGTTTTT TTTTCCTTG CCAACCTCCG TTCTATTTAT GTGCAAGCAG 180  
 TTTGGATTCA AGTTCTTGTA TCTGTCTGTT CTGGGACCTG GGGATTGTNA GGGTTCCCTC 240  
 ACAGCCAGCA CGACCCCCAG AAAGAGGCGT CCCACAATAA ACACGTCACC TGCTAAA 297

SEQ ID NO:7264

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08503

SEQUENCE DESCRIPTION:

GATCAACAGT TCTATTACAG ATTAGAATGT TTCACTTCAC AGTTCTTTGT AAATCATGTC 60  
 AATTTTATN ATAGNTGTCA ATTTGGGAAA ATCTGTATTA AAATTTTAA ATGAAA 116

SEQ ID NO:7265

LENGTH:442

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08504

SEQUENCE DESCRIPTION:

GATCCCTAAT TGGCCAGGCC TGACCCTCTT GGACCTTTCT TCTTTGCCGA CAACCACTGC 60  
 CCAGCAGCCT CTGGGACCTC GGGGTCCCAG GGAACCCAGT CCAGCCTCCT GGCTGTTGAC 120  
 TTCCCATTCG TCTTGGAGCC ACCAATCAAA GAGATTCAAA GAGATTCCTG CAGGCCAGAG 180  
 GCGGAACACA CCTTATAGGC TGGGGCTCTC CGTGGTGTTC TGGACCCAGC CCCTGGAGAC 240  
 ANCATTCACT TTTACTGCTT TGTAAGTACT CGTGCTCTCC AACCTGTCTT CCTGAAAAAC 300  
 CAAGGCCNC TTCCCCACC TCTCCATGG GGTGAGACTT GAGCAGAACA GGGGCTTCNC 360  
 AAGTTGCCAG AAAGACTGTC TGGGTGAGAA GCATGGCAGA GTTTTCCCA GGACAGGTGT 420  
 TGACCAGGGC TTNTGTGTTA TN 442

SEQ ID NO:7266

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08505

SEQUENCE DESCRIPTION:

GATCTTCTGA CATTACTGCT GTCTGAGATT TGTATATGTG TAAATACAAG TTCCTTGATA 60  
 CCCTAAACC TTGGATTAAA CAGAATGTGC ATTGTACATC TTAAACAAA ATGTATATTA 120  
 ATTTATATAA TCTAGTTGTC ACTTTAAA 148

SEQ ID NO:7267

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08506

SEQUENCE DESCRIPTION:

2153480

GATCTTAATT CTGTGTCTTA ACAGCAGGAG ATGAAATTCC CACATGGGAG ATGGCCTCCC 60  
 TGTCACAGGA AGGAATANCA TTCTCCCTAT CAATNNGAG AAATTGGAAC TGNGAGAATT 120  
 CTGTATAGAC CCTTGTCAA GTAATTNTTC TAGTTTAAAN CNTCCCAAN 169

SEQ ID NO:7268

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08507

SEQUENCE DESCRIPTION:

GATCAAAGAG TCTCATCAAA GCAAGTTCTT CCCTCCCTGG TCCCCTTTGG CTTTCTGAAA 60  
 TNATTAATTA AAAGAAAGGC CCTAGGAAA 89

SEQ ID NO:7269

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08508

SEQUENCE DESCRIPTION:

GATCATTGNT TTATTTTGTA GTCCACCTTT CAATCACTTC ATGTATATAA AAAGGGACTT 60  
 TGAATGTAAT AGTCTTCATC TTATTTATTG AAAAGATGTA CTAAAGGAAT GACTATTTTT 120  
 AAAAAANCT CTAGTATTTA TCAATATGAC TCTAAGGGAA AAATCAAGAA ANTTAGAGGA 180  
 AGGTTCAANT TAGTAGTAAG GAATAGGANC NNNCATATNA NCTNN 225

SEQ ID NO:7270

LENGTH:259

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08509

SEQUENCE DESCRIPTION:

GATCTGTAGT GATGGAGTTC CTTCTGGTGT CAGCCCCACA GGAGGCTCCC AGGCCTCCCT 60  
 CACTTCCCAT ACCCAGTCTA GGAGCTCCTT CTGGCTCCCA AGCACCAGGA GCTTTCCTCC 120  
 GCCTTTNAGT TTTGGTTCCT CCACTGGAAT GTAGGCTCCT CACGGGCGAT GGCTGTCTTT 180  
 TCTTGACTTT GTATCTTCAC TGCCAAGCAA AAAGTCTGCC AAGTGGGAAT NTTAATAAA 240  
 TATTCATTGA ATAATGAAA 259

SEQ ID NO:7271

LENGTH:357

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08510

SEQUENCE DESCRIPTION:

GATCCCAGAA GGAATGCTGA CCCCTCGTCG TATGACCTGT GCATAGTCTC CAGAGCTTCA 60  
 AAGGCAACAC AAGCTCGCAA CTCTAAGATT TTNTNAAACC ACAAAAACCC TGGTTAGCCA 120  
 TCTCATGCTC AGCCTTATCA CTTCCCTCCC TTTAGAAACT CTCTCCCTGC TGTATATNAA 180

02063

AGGGAGCAGG TGGAGAGTCA TTNCCCTTCG TCCTGCATGT CTCTAACATT AATAGAAGGC 240  
 ATGGCTCCTG CTGCAACCGC TGTGAATGCT GCTGAGAACC TCCCTCTATG GGGATGGCTA 300  
 TTTNATTTTT GAGANGGAAA AAAAAAGTCA TGTATATATN CACATAANGG CATANAN 357

SEQ ID NO:7272

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08511

SEQUENCE DESCRIPTION:

GATCTAAATN AACAGCATTT TTTTCCTTAG CCTCTGTTTG CCACTCTGGG TATCTCTCCT 60  
 ATGGGCAAAG CCATTAGAAA TGCATAAAAC CTCGAGACAT GGTTTTGGC AAAAATCCA 120  
 TGACTTTAAA CTAGCTCTTT NACTACTGAC CTTTCACAGA GAAAAAATAT TTCCCTTGAA 180  
 AAAAATGGG CTTGTNATTT TTNCCCTTGT AGCTTTAAGC AGAGACATAA GTGCCTTGCA 240  
 TTACACATAG TAAACTTTCT TTAAT 265

SEQ ID NO:7273

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08512

SEQUENCE DESCRIPTION:

GATCTTCTCT TTTTGGGT TCATTTGTT CTGGGTTTG GTTTCTTCA CAATCTTGAA 60  
 CATTTTACAG TAGAACTCAT CTAAAAATGG ATTTGGGGAT GGGGAAACAT GCACAAAATC 120  
 TTTTCATAAT TAAAAAGAGC CTTACTTTCT TTACATACCA CAAA 164

SEQ ID NO:7274

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08513

SEQUENCE DESCRIPTION:

GATCCGTTCC GTGGTCGCCC TGCACAACCT CATCAACAAC AAGATTGCCA ACCGGGATGC 60  
 AGAGANGAAA GAAGGGCAGG AGAAAGAAGA GAGCAAAAAG GATAGGAAAG AGGACAAGGA 120  
 GAAAGATAAA GATAAGGAAA AGAGTGATGT AAAGAAAGAG GAGAAAAAGG AGAAANAGTA 180  
 AAACATGTAT TAANTAGCTT TTTAATTG TAANTTAANA TCTTACANAC TNGAANCNAN 240  
 NNN 243

SEQ ID NO:7275

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08514

SEQUENCE DESCRIPTION:

GATCACAGGC CTTGAGAGAG NAGAATAAGA CACTCTTGGG GACAGAAAGT TAAAACACCG 60

TGTGTCCTCA CTTATATGTG GGCCTAAAA AAGTTGATGT CATAGAAGTA TAAAGTAGAA 120  
 CAGAGGATAT GGAAGGTGG GAAGGGTAGG GGAAGGGAA GGATAGGGAG AGGTTTGTTA 180  
 AAGGATACAA AATTACCACT CGATAGGAGG AGTAAGTNCT AAGTNCTAGT ATTCTATACC 240  
 ACTGTAGGAT GACTATAGTT AACAN 265

SEQ ID NO:7276

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08515

SEQUENCE DESCRIPTION:

GATCGCCCGC ATTCCGGAGC CTTCAAGTAA ACGGCGCGCC CCACGAGACC CCGGCTTCCT 60  
 TTCCAAGCC TTCGGGCGTC TGTGTGCGCT CTGTGGATGC CAGGGCCGAC CAGAGGAGCC 120  
 TTTTAAAGN ACATGTTTT ATACAAAATA AGAACAAGGA TTTTAATTT NTAAGTATT 180  
 TATTTATGTA CTTNATTTT ACACAGAAAC ACTGCCTTTT NATTTATATG TACTGTTTTA 240  
 TCTGGCCCCA GGTAGAACT N 261

SEQ ID NO:7277

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08516

SEQUENCE DESCRIPTION:

GATCCACATC TAGTGAAATG TCAGTGTCAA AATATTATAG ATTATAGCTA AAATCCAGAT 60  
 TAATACTCAT TTGGGGTTTT TAATAGTGGA ACTTCATAGT AATACAAAA GCAGATTGTC 120  
 TTCCTGTCTC CGTGCTCCC ACAGTAGGTA TTGAACTGG TAAANCACT TTTTGATAG 180  
 TGTGTGTATA TAAGANANN TAGATACACA CATTCTTTT CCTCAGTCAN CACATTGATT 240  
 GACCACTCTG GCAAAGATGN 260

SEQ ID NO:7278

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08517

SEQUENCE DESCRIPTION:

GATCCCACTC CACCCACCT CAACTATTT AACTTCCTAA TTAAATCAGA CTGTTTGAAA 60

SEQ ID NO:7279

LENGTH:156

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08518

SEQUENCE DESCRIPTION:

GATCTGGAGA CTTAAAAAGA AACAAAAAC AAATGGCAAG TTCACTTAA GGGTGGTTTG 60  
 CCCTTAAGAA GAAAGCTGT GGGACAAAGA CACCGAGCCA TTATACCCAG AATAAAATAA 120

TACATTTATG CTGGATTTTA TTCAGACCAA ACTAAA

156

SEQ ID NO:7280

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08519

SEQUENCE DESCRIPTION:

GATCATTGTT TAGAATATTT CCGCCACCTT AGAAAGTTTT GTCATGCCTT TTTTTCAGT 60  
CAGTCCCCTCC CCTTCACTCA CTGCAAGACC ACCACTGTTG TGACTTTTAG CATCTAAATG 120  
TAGCTTTGGA ATCATGTAGT ATGTACTCTC ATGTCTCTGA AATTCATCCA TGTTGTTGCA 180  
TAATTCAGTA GTTCACTACT TTTTAATTTT TGATTAGTAT TTCATTGTAT GGGTGTACTG 240  
TAATTTGTTT AACCATTCAC CTGCTGTTTA ATCTTTTGAG CTGTATGCAT TTGGCTATTA 300  
TGAATAAAGC TGCTTTGAAC ATTCCTAAA 329

SEQ ID NO:7281

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08520

SEQUENCE DESCRIPTION:

GATCAGAGAA GACCCCTGAG ATGAATCAGG GCCCTGCCCT GNCCACCAAC TCTTTTCTAG 60  
CAATCATGTC CTGCCCAGGC TGCAGGCTTC ATTAGGCTCC TGCTGTCCTC CATGATGTGA 120  
CTAGCACAAG GTGTATATAT GTTTTGTACC TCTGCCGATG GCTGTACATA GTGTATGAAA 180  
GTTATTTAAG CCCCATGTTG TACATTTCTG TTCCTAGATT GGATGTGTGT GTTCTAAGAA 240  
GTTGTCATAA ATAAAACCTG AATGACCAAA 270

SEQ ID NO:7282

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08521

SEQUENCE DESCRIPTION:

GATCCAATTA TTAGAAAAGC ACTCTTAAGA GTGCAATGAA TGTGATTGTA AAACCTTGAAA 60  
GCAGCCTAGA TTTTACTATA TTTGTTATTG TTATCAATGG GGGTTTGTCA ACCTTAAAAA 120  
TTATTTTNA TGTAAGATA CCTAGGAATT TCTAATAACT GTATTTGTTT TAATAAACTT 180  
TGACTTTGCT GTAAA 195

SEQ ID NO:7283

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08522

SEQUENCE DESCRIPTION:

GATCTACCTC AGTTAAACAG TTGGGTGCTA TTACTAAGTC TGTCAAATTA AATTGGAAAA 60

2153480

AGTAACCAAA CGGTGAGATA CAACTCCACA TGAAACTGA AATTGTAATT TCCGTTTATT 120  
TAATGATATT TTNATTTATT TGTGCCTTT ATGTTGAACC CCAATGCATT GAAAAANTTC 180  
AGTATGAAAC AGTACATATT TNATTTATAT TACAGGTGGG AGAAAAGTCC AATTGGTCAT 240  
GGAATTTGAT AGACTTTTCC CCAGCCAACT GCTACAGTGT ATTATAATCC CGACTGCCCC 300  
CCTGTGAAAA GANAAAAAAA ATTGTCCANG GGCAATTTN CCATTNCNA ACCANTANNG 360  
NCCANNCTCC TTAAAAANGN GNGNNN 386

SEQ ID NO:7284

LENGTH:187

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08523

SEQUENCE DESCRIPTION:

GATCAGTTAG TAGGCTTTCG NTGTCTTCTC TTTCAATACA TGTACATCTT TACTGTTTGA 60  
AAAGTGTTAC AGCTGTCAAA GAATCTTCAT GGACCTGAAG ATAATTTNTT GTGAAGTTGA 120  
ATGCAAGTNT ACTGTCATTC ATAGTGTTAA TATCAAANTA CCAGGAATNT TNACTTTTNC 180  
NACCTNN 187

SEQ ID NO:7285

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08524

SEQUENCE DESCRIPTION:

GATCTCAGAA ATTGTATCTN AGTTGGTATC AACCAAATGG AGTGACTTAG TGTACATGAA 60  
AGCGTAAAGA GGATGTNTGG CATTNNACT TTTGGCTTGT AAAGTACNGG CTN 113

SEQ ID NO:7286

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08525

SEQUENCE DESCRIPTION:

GATCAAAGAG TAAGCCACAC ACGGATAATC AGTTACTAGG GATGGAGGTG TGAGGGTCA 60  
TTATATTATT CATTTTACTG TTGTATATGT TTGAAAATNT CTATAATAAA AAGCTTTAAA 120

SEQ ID NO:7287

LENGTH:65

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08526

SEQUENCE DESCRIPTION:

GATCATGTGT ATGAATTGTT GGTGCTCTAA AGAACAGCAC AAATAAAATN ATTTTCAAAT 60  
TTAAA 65

02067

SEQ ID NO:7288

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08527

SEQUENCE DESCRIPTION:

GATCCGNCCT CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCATGANCCA CTGCACCCGG 60  
CCCCATTCTCT CACTTTAGCC TCAGGCAGAG AAGACNGCGC GATGGGGNNN 110

SEQ ID NO:7289

LENGTH:296

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08528

SEQUENCE DESCRIPTION:

GATCTGCGAC ACTGTGGACT GAACACACTG AAGCTCTGAT GGGAAAACCT GGTGACTGAT 60  
ATAGTTGTTT AGCAATAATT CATAGTCTGT GATGAAGAGT AGTGAATACA ACACACAACC 120  
AGGCAGCCTT CTTGACTATA CTTTGACAT GNTTCTTTA GGAATTCAC CACACATTTA 180  
AACCAGTTAG TGCCTTCTAG AAGAATGGCT TTCCTTTNTN CTACACAAAN TTTGAATTAT 240  
ACAAGNNTCT AAATATAATA CCTTTNAATA AAAAGGNTAA TTNGNCCCT CTGAAA 296

SEQ ID NO:7290

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08529

SEQUENCE DESCRIPTION:

GATCAGGTCC AAGCAAAACG TCCAGAGTGC TACAAAATGT TCGGTTCTCA GTCCAAAAG 60  
AAGTGGAAAA GAATCTGAAG TCATGCTTGG ACAATGTAA TGTGTGTCC GTAGACACTG 120  
CCAGAACT ATTCAACCAA GTGATGGAAA AGGAGTTGA AGACGGCATC ATTAAGTGG 180  
GAAGAATTGT AACCATATTT GCATTTGANG GTATTCTCAT CAAGAACTT CTACGACAGC 240  
AAATTGCCCC GGATGTGGAT ACCTATANGG NGATTTTATA TTTNTTTCG GAGTTCATAA 300  
TGAATAACAC AGGAGGATGG GNTAAGGCAA AACGGAGGCT GGGTATGTGT GATGGGAAAA 360  
CTTCTTCAT TGGTNCCTTC N 381

SEQ ID NO:7291

LENGTH:51

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08530

SEQUENCE DESCRIPTION:

GATCACCCCC GCCGACGGCC CCGGGCCCCG ACGGCCCGGA AGTTCCGCAA A 51

SEQ ID NO:7292

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08531

SEQUENCE DESCRIPTION:

GATCATTCTG TTCTTTCAAG GAGAAATAAG CCTAAAAGAA GAAAAACAAA AAAAATTCTG 60  
TATAAACTG TAATCCTTTG TATTCATGTT TACAGTGCTA TTAATAAT NCAAAATTAT 120  
GTATGTGACT TAGAGTTATA TAATCATAAT TTATGTTTAT TTCAAATATC TAAGTTTATT 180  
GCTTGGATTT CTAGTGAGAG CTGTTGAATT TGGTGATGTC AAATGTTTCT AGGGTTTTTT 240  
TAGTTTGTGTT TTATTGAAAA NTTTAATNAT TTATGCTATA GGTGATATTC TCTTGAATA 300  
AACCNATAAT AGAAAAATAGC AGNCACCATA ANCATCTTG TAAATNN 347

SEQ ID NO:7293

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08532

SEQUENCE DESCRIPTION:

GATCCAGAAA CTTTCCCAA GAAGCTTGGG CATGGATTGC TGGTAAACAC AAAAAGCTGA 60  
TGGAGGGCAG AGCAGCCGGT TGAATCCCC TGTCAATAT CTAAAGTGG AAAAGCTGA 120  
AA 122

SEQ ID NO:7294

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08533

SEQUENCE DESCRIPTION:

GATCATCTTT CCTGTTCCAG AGAAGTGGGC TGGATGTCTC CATCTCTGTC TCAACTTTAC 60  
GTGTACTGAG CTGCACTTC TTAAGTCCC TAACTNAAAG ANCGACTCTG ACAGAAACTN 120  
TNTTNCNCA ACAGTTTN 138

SEQ ID NO:7295

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08534

SEQUENCE DESCRIPTION:

GATCCTTCCG GNGGAGTGTC GGAGAAGAGA GCTTGCCGAC GATGCCTTCC TGTGCAGAGC 60  
TTGGGCATNT CCTTTACGCC AGGGTGAGGA AGACACCAGG ACAATGACAG CATCGGGTGT 120  
TGTTCATC ACAGCGCCTC AGTTAGAGGA TGTTCTCTT GGTGACCTCA TGTAATTAGC 180  
TCATTCAATA AAGCACTTC TTTATTTTAA A 211

SEQ ID NO:7296

LENGTH:152

TYPE:nucleic acid



2153480

TOPOLOGY:linear

CLONE:HUMGS08535

SEQUENCE DESCRIPTION:

GATCAACGGT ACTTGTTTTA AAGAAGCTTA TGTGGACTTT GTCTTTTCTC GTTGCCACAA 60  
CCTCTTTTAA TGTGCCTATA GTCCACTATA GCATGCATAT CTCAAATTGC AATTCCTTGC 120  
AATTCTGGAA TAAACGCTTT ATTTTGGAGA AA 152

SEQ ID NO:7297

LENGTH:381

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08536

SEQUENCE DESCRIPTION:

GATCTGCTGA CTTATATAAA GCTTTTGTAT TCCTACTAAG CTTTAAGATT TAAAAAATGT 60  
TCAATGTTGA AATTTCGTG GGGCTCTATT TTTNCTTTGG CTTTCTGGTG AGAGAGTGAG 120  
GAAGCATTCT TTCCTTCACT AAGTTGTNT TTCTTGTCTT CTGGATAGAT TGATTTTAAG 180  
AGACTAAGGG AATTTACAAA CTAAAGATTT TAGTCATCTG GTGGAAGG AGACTTTAAG 240  
ATTGTTTAGG GCTGGCGGG GTGACTCACA TCTGTAATCC CAGCACTTTG GGAGGCCAAG 300  
GCAGGCAGAC CACTTGANGG AGTTCGGGNC CAGCGTGGCC ACCGTGGTGA ANCCCTGTNT 360  
CTNCTAAAAA TNCAAAATTT N 381

SEQ ID NO:7298

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08537

SEQUENCE DESCRIPTION:

GATCAACAGC CTCCTCTCTT GGGGACTCTC AAGAGCCTGT TTTCATCTAG AAGTAGTAGT 60  
TTGATTCTGG TTTCCCTCCT ACAGTGTGTC CTCGCTCTCT TTGCAGCTCC GTCATTACCA 120  
TAGGGGACTT GGTTTtagAC TCTGATGAGG AAGAAAATGG CCAGGGGGAA GGAAAGGTGA 180  
GTGGGAAGGA GCAGAAAGCT GGGAAAGGGG ATGGGTAGAA CAAGACTGAG AAATCCACAT 240  
GCTTCAGANT TCAGAGGGTT CAGGGAATNG TTTCGGATAG TAGGCTCTCC CTGCTCCCTT 300  
CTCTACAGGA ATCTNTGGAA AACTATCAGA AGACAAAGTT TGACACCTTG ATACCCACTC 360  
TNTGTGAATA CCCTACCCN 379

SEQ ID NO:7299

LENGTH:82

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08538

SEQUENCE DESCRIPTION:

GATCATTACA AACAAAACT GTAATTTTNT TATATTTGAT TCAATGGAAT TTACCTAAAA 60  
AATAAAGACT AAAAATGTGA AA 82

SEQ ID NO:7300

02070

LENGTH:225

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08539

SEQUENCE DESCRIPTION:

GATCCCTTTA TTGACAGCCA GTTTGAGGAC ACTGTCCCAG CATCTCTAAT GGAGCCTGAG 60  
CCGGTGTGAG GACCAGGATG TCTTTTCCCA GCCCAAGAG ACCTGTTGCT GCTTTCTTGT 120  
AATNATGGGG CTCCCCAGAG TCTGCGTAAC AGTCTCCCAC TGGCTGGCTC ACCCACAGGT 180  
GCCATGTGCA CACTCCTGGT TTTCAAACAA TTCTCTGGAT TTAAA 225

SEQ ID NO:7301

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08540

SEQUENCE DESCRIPTION:

GATCATGCAT GCCAATCCCT GTTGCCGCAT GGAGCTCCTC AGCCCACTGA CCTCTCCGTG 60  
CCTGGTGCAG GCCAGGCCCC CGTCTTCCGC CTGCCTCTGC TTCCCGTCA TGCATGGTGG 120  
TGGTGTCTTCT ACGGTGTCTG GTTCTGTGCC CGTCTCTGAG ACAGTCTCTG TGTGGAATNT 180  
GCCTTAAACT GAAGTAAATN TGGTCTTTT AGTAAA 216

SEQ ID NO:7302

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08541

SEQUENCE DESCRIPTION:

GATCAATTCA TGCAAGATAT AATCATATTT TTAAATTAAG AAAATTTTTT TTGTAGAGAT 60  
GGGGTTATGC TGTGTTGCCT GGCTGGTCTC AACTCTGGG TCTCAAAGCG GTCCTCCTGC 120  
TTTGGCCTCC TAAGGTGCTG GGATTATAGG CATGAGCCAC TGTGCCAGGC CTGAGGATAT 180  
TATCATTATA AATATATATG TACCCACAC TGGATGACCC AGATATAAAG CAAATATTAT 240  
TAGATTTAAA GGGAGAAATA GACTCTAATA CAATAGTAGT TGAGGACTTC ACTCTACTCT 300  
CAGCATTGGA CAGATTTTCT AGACATAAAA CCAATAAATA TTGGATTAA ATTGCACTTT 360  
ACACCAAATG GTCN 374

SEQ ID NO:7303

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08542

SEQUENCE DESCRIPTION:

GATCCCATTT CTATGAAATG TCCAGGGCAG GCCCAGCCAC AGAGACAGGG AGTAACGTGG 60  
TGGTTTATTA TAAATTTTTC ATGAAAATAA AATATACAGT ACTCTCGTGN AAA 113

SEQ ID NO:7304

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08543

SEQUENCE DESCRIPTION:

GATCTGCACA GCCTCTAGAG GCCTCCCAGC AAATGCGGGG AGCCATGCCC CCAGGGTCTA 60  
CACACTCTCG TTCATCAACA TCACAACTGG AATTCGGGAT TTGTGAAGTT TAGAGCTGNA 120  
CAGACTGTGA CAGATTATGA GTCAACACGT ATATTTTCTC TTTCAAAATA ATAATATTTC 180  
GTTTTTGACT TTTTACTAAG TGAATATTAT TTTTAAATC TGCCTATATA TTGGAACCTC 240  
TATTTTATAA TAATAATGAT AATAAATCAG TACCCAGAAG TATAAA 286

SEQ ID NO:7305

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08544

SEQUENCE DESCRIPTION:

GATCTAAATN ATGTACTTGT TAGTGTATTC ATTCATATTG ATTGTAAAGG ATTATTTTTC 60  
ACTCAGTACT GATGTCCTTG GAAATCTTAC CTGGAAACAT GTTGCAAAA AACAAA 116

SEQ ID NO:7306

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08545

SEQUENCE DESCRIPTION:

GATCCCAAGT CTACCCTGGA AATNCCCAGG CACAGCATGC CTGGAGGTGT GAGCCGCCTC 60  
TTAGAAGCTT TATAATCCCG GATAATNCTG CTGTAATTGG CATTGTTTTT CCATTACAAT 120  
CCTTTCATTA CCTGAAA 137

SEQ ID NO:7307

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08546

SEQUENCE DESCRIPTION:

GATCCCAGCT TGGTGGGAAA GTGCAGAAGA ATTGCAAAAC TGACATCCCA TNTNACAGCA 60  
ATAGTGACCT TTATTTAAAT TGTTGTGTTA TAGTTTATGC TTCTTAAATC ATTTTCAAC 120  
NTAAACAGCC AATTTCTAAG CAGACAGGAA AACTAAATAA TAAGTTNATT NATATAACAA 180  
AGATGCAGGT TCCTGCTCAT TCCAGTAATG TCTTTGAAAG CANNNCTNAT ATTTNTTTTC 240  
TAGATTATCC CTGTGAATAA TTGAGANCTT TTTGGAGTCA AGNATGAATA AAGGTGTGGC 300  
AAGGNTATAA ACANNAN 317

SEQ ID NO:7308

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08547

SEQUENCE DESCRIPTION:

GATCTGTCAG AAAAGACATA TTTTGAGAT AAAGGAGTTT CTAAATAATG AATTATTGTT 60  
TAGTACCAGC TTTTGGAATC CTTACATTTT AAGGAACTTG AATAATTTAA ATATTAGATA 120  
ATGTAACCTC TCATAAAAC AGTGTCTAGA CAAGGGCCAA TATTGCATTG AGATTGGATG 180  
AACATTTTAT TTTGCATATA ATTGTTGTCT ATAAAACAAA ATACTAATAA TAATGGCTAC 240  
CNGTTAGNCA NTTTAGNNCN TGTCTTACTA TTTACCNNTG TGGNAAAACA TTGCATGNTT 300  
TAATNTTTTT CTAAATAAAT ATTNTNCCAT TANCNNN 337

SEQ ID NO:7309

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08548

SEQUENCE DESCRIPTION:

GATCCCACCA ATCCTCGTTC CCCCTAAACA TGCTAACAAA AATCCCTTAT TGTGGGTATT 60  
AAAATAATAA CAGTTACACT GTATGCATAT TTATGTGCTC CTTTGTCTG GTTTNCTTT 120  
TCATCATGTA TAAGCTGAAT TCAGCATTAG TTTCTCACAT CTTCCCCCAG GTATCCCCAA 180  
CAGAATTTTT ATGTCCAGC TTGTATTAAG TAGAAGTGAA ATATTAAGGA AAATAAGGAA 240  
CTTGTGCAAC TTTTNNATG CATTGTTCTC AACCATTTAA TTTATTGAAA GGAGATGCTG 300  
CAACAGTTCT TGATTAGCA GCAGTTATTC TCTGTTTAC ATAGTTATGG TTTNTGTG 360  
TTGGTTTTTG CTCTGGTACT GGGAAACCGN 389

SEQ ID NO:7310

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08549

SEQUENCE DESCRIPTION:

GATCCAGGTC TTCTGATTCT TATTCCAGTG TCCTTTCTAG CATACCATGT TGCTCTAAA 60  
GATTGCAGCT CCTTATTTAC TAGAAAAATTG TTCCTGCCCA ATCTACATCT CCACCTCACC 120  
CCATCTTTTC TTAAGCACTA TGTGTTGTGT TTTATCAGTA TTATATTCAT TGTCTTTGGA 180  
ATACATGTTT TGTGTTGTGT TTGGAAAAAA AATCTCTTTT ACCAGCTTGC ACTCGGACCA 240  
ACTTGAAAAA AAAAANGCTT AAATGTTTNN GCTATGTNCA GTTTAAAAAT GTGAAGTTTG 300  
TNGCTTTANC TTTTGTAGG AAAATCTANT ANCACTGGCT TAAGTGCTGA CTTGAAATGC 360  
TATCCAN 367

SEQ ID NO:7311

LENGTH:56

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08550

SEQUENCE DESCRIPTION:

GATCCAGCGA ACCACTGCAC TCTAGCTGGG GAGACAGAGC AAGACTCCGT CTCAAA 56

SEQ ID NO:7312

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08551

SEQUENCE DESCRIPTION:

GATCTCTTCC CTTAGGAAAT ATCAACATCT TTATGTACAT GTCAGAGTCA TGGTGTGATG 60  
ACGTACTTTG AAGCATGGAG TCAGTTTCA AA 92

SEQ ID NO:7313

LENGTH:368

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08552

SEQUENCE DESCRIPTION:

GATCCACTTA TGAAGTGAAC ATTCTCCATG AACAGGTGGT TGGATTGGTA TCTGTCATTG 60  
TAGGGATAGA TAATAAGCTC TTCTTATTCA TGTGTAAGGG AGGTCCATAG AATTAGGTG 120  
GTCTGTCAAC TATTCTACTT ATGAGAGAAT TGGTCTGTAC ATTGACTGAT TCACTTTTTC 180  
ATAAAGTGAG CATTTATTGA GCATTTTNC ATGTGCCAGA GCCTGTACTG GAGGCCCCCA 240  
TTGTGCACAC ATGGAGAGAA CATGAGTCTC TCTTAATTTT TATCTGGTTG CTAAAGAATT 300  
ATTTACCAAT AAAATTATAT GATGTGAAA AAAAAAAAAA AATTGCGGGC TTGNANGNTN 360  
GGGGTCAN 368

SEQ ID NO:7314

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08553

SEQUENCE DESCRIPTION:

GATCACACCA CTGTACTCCA GCCTGGATGA CAGAGTGGAG ACTCTGTTTC AAAAAACAG 60  
AAAAGAAAAT ATAGTTTGAT TCTTCATTTT TTAAATTG CAAATCTCAG GATAAAGTTT 120  
GCTAAGTAAA TTAGTAATGT ACTATAGATA TAACTGTACA AAANTTGTTC AACCTAAAC 180  
AATCTGTAAT TGCTTATTGT TTTATTGTAT ACTCTTTGTC TTTTAAAGAC CCCTAATAGC 240  
CTTTTGTAAC TTGATGGCTT AAAATTCCTN ATTAATNCTG CCATTTCAAN TTCCAAA 297

SEQ ID NO:7315

LENGTH:86

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08554

SEQUENCE DESCRIPTION:

GATCTTTGAA TGAGCTTTT AAGGAAGAAA TATTATATAT TGTTTGTTAA AGTTTATTGA 60  
AATAAAGAAT CATTTAAATC TTCAAA 86

SEQ ID NO:7316

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08555

SEQUENCE DESCRIPTION:

GATCCAAATT GTGAAGCCGT TGGTCAGGTG CCTGGCTACA CACAAAATGG TGGAGGCTTA 60  
GCCTAAACAG TTTCTTCATT TCACATTAAA ATCCTAATTN NTGGCTCCTC TCAAAATGAG 120  
TTCTAGAAGC ACNGGNTGTA GATTCCCATG TGGACACAGC CTTCAGGAGG TGAGCAGCAG 180  
CTCCCTGCAG CCAGCTGGAG CCTGCCAGTT TTCCCTAGTG CCCAGCACTC CTGAGCTTCT 240  
GCCCTCCGAG GGATTCCCGA AGTTTTTCT AATGGGNTTA GTGGNGNCNC CTTTGGGGTT 300  
GCTTNGGTTT CNTTNGTTA NGNGCCCTTG NTTTTAAAT AAANCNGGGC CATTNN 356

SEQ ID NO:7317

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08556

SEQUENCE DESCRIPTION:

GATCTGTGGG ACTGTCTGGG CCTGTACTC ATCCTGCTAT CAATTTCTTA TTAATTAATC 60  
TTGATGATTC TNATTAATTA ATCACATTG CAGGAAATTC AGATGAGGCA AGAAAATTN 120  
ATTGGCCTGG GNNNGACTGA AAGCATTCCA AATTAGGCTT AGACTGTGCA AAGGGCTTAG 180  
CTAAGTTATC GAGCTTAAAA CCCGTCAATT AANCAACAT TATTTGANCA GTTACTGCAT 240  
GCCACGCACT GTGTTGGGCT TAGTAATAAA ANNNAGNAAA GGTAAGNGCT TGTNCTNGCC 300  
TAAATTAAG GGTCCCCGGG GGTTTTTTCT NGAGGGGGCN NCTGCCCN 349

SEQ ID NO:7318

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08557

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCAAGAGT TCAAGACCAG CCTGGCCAAC ATGGTGAAAC GCTGTCTCTG 60  
CTAAAANTAC AAAANTTAGC TGGGCATGGT GGTGGGCACC TGTAATCCCA GCTACTCGGG 120  
AGGCTGAGGC AGGAGANTCG CTTGATTCCA GGAGGCAGAG GTTGCACTGA GCCAAGACTG 180  
CACTGTTGCA CTCCAACCTG GGCAACAAGA GCAAACTCC GTCTCAAAAA AAAANGTGT 240  
TAATTATTCT AAAAAAAT CAGCCAGGTT ATTCCAAATT NTAATTGAAA NCNGGGGCCC 300  
CAGGTTAANC GGGGCCTTAC CCTTCCCTTN GCNCTTTGGA NTTTNNCCAT N 351

SEQ ID NO:7319

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08558

## SEQUENCE DESCRIPTION:

GATCAGCAGT GTTGACCATT TATGCTGCAT AGCTGGTATT ATAGCCTTAT TAGTTGTGTG 60  
 GTTGACCCTT GGGGTATACA AATGTCAGTC TGAGTGGTGN CTTACTCCTT TGTTTATAAG 120  
 TGAATGATTG TGCATGTTTT GTATGTCATA GTATGTCGTC ACATAAAAGG GAGGGAGCGA 180  
 AAAACCATT AATTAAGATA ATATTGGACC AAACACTTA CTTGCTCTAA ACAGTTACTT 240  
 GTACCCCTTA ACCTGTCTTC AAAAGTTGCA TATAGTTACA GTAGTGTATA AATTAAATAT 300  
 TGTGGAAC CANNAANN NNNNANNNN NNN 333

SEQ ID NO:7320

LENGTH:192

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08559

## SEQUENCE DESCRIPTION:

GATCAGCTGA AGGTTTCATGG GTTTTAAGTG CTTGTGGCTC ACTGAAGCTT AAGTGAGGAT 60  
 TTCCTTGCAA TGAGTAGAAT TTCCCTTCTC TCCCTTGTC CAGGTNTAAA ACCTCACAGT 120  
 TGATAATGTA CCATTGGGGN CCGTTTTAAC TGGGCCTAGG NACCCCTCA NGAATAACCT 180  
 GNAAGGGCCA AA 192

SEQ ID NO:7321

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08560

## SEQUENCE DESCRIPTION:

GATCGTGCCA TTCCACTCCA GCTTGACAA CAAGAGCAA ACTCCGTTA TAAA 55

SEQ ID NO:7322

LENGTH:78

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08561

## SEQUENCE DESCRIPTION:

GATCAGACCC CCACAATATG TCTCAACCTC TGTGAAGGG CTAGTGATGT TAAAAAAC 60  
 CTGTTATTTC CAATCAA 78

SEQ ID NO:7323

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08563

## SEQUENCE DESCRIPTION:

GATCTGGTAT TTCCTGGACT AAATTCCTT TGGGAAGAC GAAGGGATAN TGCAGTTCCA 60  
 AAAGAGAAGG ACTCTCCAG AGTCATCTAC CTGAGTCCCA AAGCTCCCTG TCCTGAAAGC 120  
 CACAGACAAT ATGGTCCCA ATAAGTACT GCACCTTCTG TGCCTCAGCC GTTCTTGACA 180

TCAAGAATCT TCTGTTCCAC ATCCACACAG CCAATACAAT TAGTCAAACC ACTGTTATTA 240  
 ACAGATGTAG CAACATGAGA AACGCTTATG TTACAGGTTA CATGAGAGCA ATCATGTAAG 300  
 TCTATATGAC TTCAGAAATG TTAAAATAGA CTAACCTCTA ACAACAAATT AAAAGTGATT 360  
 GTTCAAGGT GGAAA 375

SEQ ID NO:7324

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08564

SEQUENCE DESCRIPTION:

GATCCACCTG CCTCGGCCTC CCAAAGTGCT GCGATTACAG GCATGAGCCA CCGCGCCTGG 60  
 CCGCTTTTCA TATTTTCTAA ACTTTAATTC AAAAGCACTT TGTGCTGTGT TCTATATAAA 120  
 AAACATAATA AAAATTGAAA TGAAAGAATA ATTGTTATTA TAAAAGTACT AGCTTACTTT 180  
 TGTATGGATT CAGAAATATAC TAAATTAAC TTTTAAACA CAACTTTTAA AAAATGTATC 240  
 AAAATAATAA ACGTGTCTG ATATTTTAA A 271

SEQ ID NO:7325

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08565

SEQUENCE DESCRIPTION:

GATCCCCTGA GTTCAAGAGT TTGAGACCAG CCTAGGCAAC CTTGTCTCTA CAGAAAAATA 60  
 AATAAATAA TAAATAACA AACAAACAAA CAAAAATTA AA 102

SEQ ID NO:7326

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08566

SEQUENCE DESCRIPTION:

GATCATGAGG TCAGGAGACC GAGCACCATC CTGGCTGACA CGGTGAGACC NCGTCTNTAC 60  
 TAAAAATACA AAAGCAAAAA TTAAGTGGGT GTGGTGGCGG GTGCCTGCAG TCCCAGCTAC 120  
 TNGGGAGGCT GAGGCAGGAG AATGGCATGA ACCTGGGAGG CGGAN TTGCA TTGAGCTGAG 180  
 ATGGCACCAC TGCACTCCAG CCTGAGCGAN NNNNN 216

SEQ ID NO:7327

LENGTH:176

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08567

SEQUENCE DESCRIPTION:

GATCTGCTCT CTGTTGAGAG TTGTAATCA TTGGTTTGAA ATGTGATGAA ACCACTCAAG 60  
 CCAATGAAGG TGGGTGTGTA GGTGGGGAGT ACTTTGCCAT AATATTTTAA AACATTACCT 120



GGTTAGAGTT CTAAGTGGTA CTTATTTTGT TTTGGTTAGG GGAAAGCCTG AATAAA 176

SEQ ID NO:7328

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08568

SEQUENCE DESCRIPTION:

GATCTCTGGC TGTGTGATTT TTTTATATT GTATTTTAA AATNTGTAA ACAGTGCCT 60  
GTGAGCACCA AGTACCACTA GATGAATAAA ACGTATTATA TCTAAA 106

SEQ ID NO:7329

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08569

SEQUENCE DESCRIPTION:

GATCCGGCAG GCAGAGAGGA AAAAGGGAAC TTGTACCAAG CACAAACAGG NTCTAGGCAT 60  
AGTGCTGTGT ACTTAGGTTT TTCCTGTGCT TCAGTCTTTC CAATAAATCC AGGGGTTAGG 120  
TTTAACTCTN NCTATTNAT AGTTACAGAC CATTTTAAAT GGACAAGCAG CCCATTAAA 180  
GATAAAAGTA CTTAGATGGA CTAGCAGCTT CTCTACCAA TTATTCACC ACACAAAGNT 240  
AACATCATTG TGAAATTTGG TTTAGTTAAC ATGCATTCCC TGGCCTGCCT CACACCGGAC 300  
CTNTACCCGG TACCATGCAA ATGCACATCT GCTGCTACAC TTGTGGGATG CTGGTTTAGG 360  
TAATTNTTTT TTATAATNN 379

SEQ ID NO:7330

LENGTH:271

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08570

SEQUENCE DESCRIPTION:

GATCCGACGA GAATACCAA ATCCTATTTT TTTGACTGA GTATTTGTAG ATGCTTAATG 60  
ACTGAAATNA ATTTGGAGGC ACTGATGAAA GTAATTTT NAAAGTTCTC AGGTACTGTT 120  
CAATTATTTA ATGTTAAGTT TAGTATCAAG ATACAGTTGT TTNAAAAATG CCAAATGCT 180  
GTTTATNATA CAGAAATTTT NATTACATTT GCAATATCTT TGTATATAGT GATTTNTNC 240  
TTGATAATAA ATGGAAAANT TCTAAACCAA A 271

SEQ ID NO:7331

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08571

SEQUENCE DESCRIPTION:

GATCGACCTG CCTCTGCTTC CCAAAGTGCT GGGATTACAG GCGTGAAC TA CCGCGCCTGG 60  
CCCTCAGATA TTTTAAAT TGAAAATTAA GAGTATATAT TAATATCAAG TNGCAGAAAC 120

AGAATGAAGT GTTATAAAGG CGTTAAGTAG TAGGGNGGCA TAAAACTTAA ATCTTTAAGC 180  
 TAGAAATAGC TTGAGGAATT ATCTGATGCA GTACTCTGTT GTAATATAAC AAAAATGGAA 240  
 TCACAGTTTT ACAAATCAGG CAGCTGCAGC TCAGNGAGGT TAAATTTCCA CAGACCTGTT 300  
 TATGCAGCGC GGTAANTGAG GAAGTAGACC TAAAATTTGG GGCCTCTGCT ACTCTGGGCC 360  
 ATTACCTCAG CCTCGCTGGC AN 382

SEQ ID NO:7332

LENGTH:315

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08572

SEQUENCE DESCRIPTION:

GATCTCACAG GAATCCTTCA ACTGCTTTCT ACCAAGCGTT CCATTGAAC ACGTTAAAGG 60  
 AATCAAAGAG CCTCTGGGAT AGGGGGGAAA NCACATGGTA TCTAGCATGG GACAAAGCAG 120  
 CAAAATAAAC CAAAAGGACA ATCTCTATTT TATATAGAAA ATAAACATAC TTTTCTGCAT 180  
 CCTGTGTACT TTAAGTATAT CTATATTTTT GAAGGGTTCA TACTGTGTTG AATTTTTCTT 240  
 ATGAAATAGT CACTTCCCCA GTGTATTTTA ATGCAAATGC ATATTCTATA AAATAACCTA 300  
 TATTTTAATT TTAAA 315

SEQ ID NO:7333

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08573

SEQUENCE DESCRIPTION:

GATCTTTAAT ATCTGATATA TTCCTGGTAC TCGTACTGAT AAGGGATTAT TGGAAAGTCAG 60  
 TCACAGAATT TGGAAATAAA TTCTAGTCTN TCCTTAGCTN NNNN 104

SEQ ID NO:7334

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08574

SEQUENCE DESCRIPTION:

GATCTACCTG AGGCTCAGTC CTCATCTGTA AAATGCTGAT AAAAGGACCT ACCACCTAGC 60  
 GTTGCTGTGA GGTGTCAGTG AAATAAATG TAAAATGCTT AGCACAGTGA ACTTTAATAA 120  
 ATGGTAGTTG TGGTTGCAAA 140

SEQ ID NO:7335

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08575

SEQUENCE DESCRIPTION:

GATCTAAAGT CTA AAAAACA AATCCTTAGG TTAAGAAGAA AATAATGCAA TAAATAAAAT 60

GTTATAAATA AATGACATAT TGCNACTTTT AAA

93

SEQ ID NO:7336

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08576

SEQUENCE DESCRIPTION:

GATCATACCC ATGAAACCCA CTGTTTAGAT TTAAAAAGT TCAATGTTTT TCTGTATTN 60  
ATCTCTTCAT TTAAAAATAA AGTTTTGCAC ATGAAA 96

SEQ ID NO:7337

LENGTH:224

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08577

SEQUENCE DESCRIPTION:

GATCTAAAAG CAGATGCTGT AGCTGCCTAC TTAAACCCAT TTTCAACCT GTTGTTTTT 60  
TAAAGGGCTT CACTAAGGGT NNNNNATGTA CCATTGTAGG GGGCAATTTT AAGTCAGCTA 120  
AGGCAATAAC CTTATGCATG AACATTTCCC AGACTTTCAT GAAGCTGTTG AGGTCCTAGG 180  
CAATTAATGC GGCAGTTGTG ATAAATAAAA ACATCTCACC TAAA 224

SEQ ID NO:7338

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08578

SEQUENCE DESCRIPTION:

GATCNATATT TAGTGACTGC AACATGTTTA TACCACTGAT TCAAATTCCA NNNNTGATGA 60  
AGTTATACAA ATAATGCATA TATTGATAAC TTTTATTGCA AAAATGTAAA TTAAAACTT 120  
GTATAATGTT CTTGTGCTTT TAAAAATAAA ATATATGTGT ATATTTAAAA AGAAA 175

SEQ ID NO:7339

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08579

SEQUENCE DESCRIPTION:

GATCTGAGGA TGTTTATAAA TACTGTAAGT ATTGTAATGT TATGAATGCA ANNNTATTTG 60  
AAAGCTGTTT ATNATNATAT CATTCCTGAT AATGCTATGT GAGTGTTTTT AATAAAATTN 120  
ATATTTATTT AATGCACTCT AAA 143

SEQ ID NO:7340

LENGTH:106

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08580

SEQUENCE DESCRIPTION:

GATCACTTGA TTTTAAAGAA ATNAAAAATT GCACTAGGTA GAAATAGTGT ACCAGGCAAT 60  
AGTCCAGCTT TAGTTTTNTG TCATTTTNG TCTCTATTTA AAGNNN 106

SEQ ID NO:7341

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08581

SEQUENCE DESCRIPTION:

GATCTCAAAG CAAATCTGTA TTTTAATCTC TCAGGTGTTT ACTAGTATTA CCAGTGACTA 60  
GTGGAAATAA TAAAAGGAAA TCTTGTTTCA AAA 93

SEQ ID NO:7342

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08582

SEQUENCE DESCRIPTION:

GATCTTCGCT CCAGCTTTCT GCATCTGAGC TGGAAAAAGA GCAAAAACGG GTAAAAATTG 60  
AATCCAAATA TTGTCGNATG TATGCCTAAT TTAGAATGAA ATCTTGGGGT GGCAGACTCT 120  
GGAGTTCTCT GTGAGGTGTG GCATTCTTTT NTCTAAATCA CTTATTGGCC AATGTATGTG 180  
TCACTTTGTT AAA 193

SEQ ID NO:7343

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08583

SEQUENCE DESCRIPTION:

GATCTATAAT AAGAGCTCAA TAACTNNGTC AAGGAAAGCT CTAATATATG CAGTGATGGT 60  
TTATGAAAGG GTGTGGCAAT NTNAAATNTA TATTGTGTGT GATGTTCAAA TAAAGTGGTA 120  
TCTACATNCA TGTGAAA 137

SEQ ID NO:7344

LENGTH:389

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08584

SEQUENCE DESCRIPTION:

GATCCCTGGT ATNGTCCGAA TTGTAAAGAA CATCAGCAAG CCACAAAGAA ATTGGATTTA 60  
TGGTCCCTGC CTCCAGTACT TGTAATACAT CTNAAGCNAT TTTNTTACAG TCGATACATG 120  
AGAGACAAGT TGGANACCTT AGTTGATTTT CCTATCAATG ACTTGGATAT GTCGGAATTC 180

TTAATTAATC CAAATGCAGG TCCTTGCCGC TATAATCTGA TTGCTGTTTC CAACCACTAT 240  
 GGAGGGATGG GAGGAGGACA CTATACTGCT TTTGCAAAAN ATAACGATGA TGGAAANTGG 300  
 TACTATTTTG ATGACAGTNG TGTCTCCACT GCATCTGANG ACCAAATTGT GTCCAAAGCA 360  
 GCATNTGTAC TCTTCTACCA GAGACAAGN 389

SEQ ID NO:7345

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08585

SEQUENCE DESCRIPTION:

GATCTGTTAC CATCAGGTCA ATTCCTAGTA TGCATAAATT TTTAACCCT TTAAAAGAG 60  
 ACCTATGTTG AAAACCCCTG AAAATTCCT GAAGAAAAAT CATTACTCTT NTTCTCNGTA 120  
 AATCATATCA TCTGAAATAT TACAAATTC AAATTCTAG GTGCTATATT AATTCAATAT 180  
 TACAATACT CTTACCTAAT TATTCTTACA AGTTTAAAGT TGTGGTAGTT TAGTGATTTT 240  
 TTAAAAGAT GTGTGAAATG TTCTCTGCAA AATAATTCAG GCCACTGTCT CCTTTTATAT 300  
 ATNATNATNN TNGTNTGTGA TGANGACCAG TGAATTACGA TATTAAAGT GAGAGACCTT 360  
 AATTNTN 367

SEQ ID NO:7346

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08586

SEQUENCE DESCRIPTION:

GATCCCGTCT ATAATCNAAC AAA

23

SEQ ID NO:7347

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08587

SEQUENCE DESCRIPTION:

GATCGGCTCC CTGTCGCGCC CGAGGAGGGC TGGACCTTTC GTGTCGNACC CTTGGGNGCG 60  
 NNGAGACTGG GTGGGAGGG TGTGAATAA AAGGGAAAAT AAA 103

SEQ ID NO:7348

LENGTH:367

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08588

SEQUENCE DESCRIPTION:

GATCTGGTGG CTGAAAAAC AAGAGTGACA TTAACAAATC AAAAAAATC AGTTAGGGCT 60  
 GTGGTTTAC ATCCAAGACA TTACACATT GCATCTGGTT CTCCAGATAA CATAAGCAG 120  
 TGGANATTCC CTGATGGANG TTTCATACAA AATCTTTCCG GTCATAATGC TATTATTAAC 180

ACATTGACGG TAAATNCTGA TGGAGTGCTT GTATCTGGAG ACAGAAGAAA CTCATCCAGT 240  
CAGCTGGAAA CCAGAAATTA TCAAGNGAAA GNGATTTTAA TGAATGTGA ATTTTTCCTC 300  
TCTCTTTTTT TTTCTTTTAA ATTAAANAA AAAAGGCTTG GNGTTCATGG GGGNTTCCC 360  
GNCCTTN 367

SEQ ID NO:7349

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08589

SEQUENCE DESCRIPTION:

GATCCCGCCT NTTTCTTACA AA

22

SEQ ID NO:7350

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08591

SEQUENCE DESCRIPTION:

GATCTTTTAA AAATTCATCC CATATCCAGA AAGTACCAGT TATAAAGATT GCTGACCAAG 60  
CAAAGTTTGG CATCAAAGTG TCACCTCATT GCTCTGACCA AAGACTGACT GTTGTGGTTT 120  
TAACTCCTCT CTGTAAAGCA TTTTGCATTT TCCCAAGCT CCTTTCTGAA AGAAGAACCA 180  
GTGCAGAGCG GCCTTACTT TCAATTTCTA CTGCTGAATA GACTACTTAG AGAAAATGTG 240  
AGTTTCAGTG TGAACAGAAT GGATTAGGAT GACGAGTTTG ATGGGCATTT TCAGTACTGT 300  
ATCTAAGAAA AAAAAATTNG CACAGCTAGG AGCCTCTGAC CATTGTCTGG GTGTTTACG 360  
TGGGTCCTGT TCATCAAA 378

SEQ ID NO:7351

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08592

SEQUENCE DESCRIPTION:

GATCAAAGTC AAAAATAGCA ATGNTCCCT ATCCCTCACA CATCCAGACA TCATGAATTT 60  
TACATGGTAC TCTTGTGAG TTCTATAGAG CCTTCTGATG TCTCTAAAGC ACTACCGNTT 120  
CTTTGGAGTT GTCACATCAG ATAAGACATA TCTNTAATTC CANCCATAAN TCCAGTTCTA 180  
CTATGGCTGA GTTCTGGTCA AAGAAAGAAN GTTTAGAAGC NNNNNCACAA AGGGTTGGGA 240  
GCTGATGAAA CTCACAAATG ATGGTAGGAA GAAGCTCTCG ACAATACCCG TTGGCAAGGA 300  
GTCTGCCTCC ATGCTGCAGT GTTCGAGTGG ATTGTAGGTG CAAGATGGGA AAGGNTTGTA 360  
GGGTGCAAGC TGTCCCAAN 379

SEQ ID NO:7352

LENGTH:119

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08593

## SEQUENCE DESCRIPTION:

GATCTGCTTT AGTGAGAGGA CAATTTCTGA TTGATTGTTT TCTCTTCAGG CCATCTCACC 60  
 TCTTCATTCT CTGTGNACAT TTGAAGCAGT TGATATAATG GGTTTATANN NNTAAAAGN 119

SEQ ID NO:7353

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08594

## SEQUENCE DESCRIPTION:

GATCAGCTAT TTTCAACATA ACTGAAGGCA TATGCTGGCC CATAAACACC CTGTAGGTTT 60  
 TTGATATTTA TAATAAAATT GGTGTTTGT AAA 93

SEQ ID NO:7354

LENGTH:297

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08595

## SEQUENCE DESCRIPTION:

GATCTCTGTA GACTTGCCTC TTCTGGACAT GACATAGAGA AAGGAGTCAT AAATTCTCCA 60  
 AGGTGTCTGT TTCTTCTTTA ATGTCATTCC CTGTTTCTCC TCACATTCCC TCCCCATTTC 120  
 CTGGGCCCAG TCTCACACTG GTCCTTGCTT ACCCTAAATG CTATTAATTC CATCACTCTG 180  
 AGTATGGTGT TTGCTGTCCG CTGAATGCCA AGAGCTTCAA GAGTGTGTGT AAATAAAGCC 240  
 ACACCTTTAT TTTTGTATTA TTCTGAACCA TGGCTAATAA ATTGTTTCAC CAAGAAA 297

SEQ ID NO:7355

LENGTH:45

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08596

## SEQUENCE DESCRIPTION:

GATCTCCGAT GTGATGAATA CGAATAAAAG GCCCTTAATG GCAAAA 45

SEQ ID NO:7356

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08597

## SEQUENCE DESCRIPTION:

GATCTGTTCA TGCTTTTGTG TTCGTCACTG CGGCGGGGCC CTTTGATGTC TTCATCTGTA 60  
 TGGGGTGGAA AAATACCGG GAATCCCCCT NNNAGTTCTT TGAAAAAGTT CCATGACTCG 120  
 AATATCTGAA ATNAAGAAAA CAAACCGACT CACAAACCTC CAAGTAGCTC CAAATGCAAT 180  
 TTTTAAAATG GAAAACAAAA ATCTGAAAGA AA 212

SEQ ID NO:7357

LENGTH:250

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08598

SEQUENCE DESCRIPTION:

GATCTAAACT GTATTTTCCA ATTTAAATTA AAAATGTAAT ATAGATTCAG AAAGGTTCAT 60  
ATTTTCTAA TGACTTCATT CTATATTATT TTGTTAGGTT GCATAAAGAA GCAAGGAATT 120  
GTAATTGTAT TAAAAGATGA GGAAAGCTAT TAGGNTTATT GGNCCATGCC TGAAATNGGG 180  
CCTTTGCCCG TAAAAGGAA AGGTTGGCCC NTTTTNAAG GGGCNTTNA TNTGNNTTN 240  
TNTAACCAN 250

SEQ ID NO:7358

LENGTH:112

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08599

SEQUENCE DESCRIPTION:

GATCTGGCTT NGCCCTAAGC NNCTTAGGNA CAGAAGAGTC CATGGGGGCA TGGCACAGAG 60  
CTGGTCCTGT ATTCTCCAGG GTCCGGAGCT GGCCAGGGGC GGGGAGGAGG NN 112

SEQ ID NO:7359

LENGTH:386

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08600

SEQUENCE DESCRIPTION:

GATCTTATTT NACTTCATCC TTCTTGTAAC CATATTGTNA ATCAGGAAAG CTCAATCAGA 60  
TACAAAAACA GGAAATTCGT TAAAAGTAAC GTTGTTAGAA GATACTAGTT GAGGAGGAGA 120  
GACTTTTNAAG AAAGCCTGTG TGTGTTTGTG AACTCTTGT GACCGTGCCA AGAAAACGTA 180  
AGCAAATATC AAGCCTCCAA ATCCTAATGC AACANGTCCT GANTCCCTTG CAGGTATGTC 240  
CTGGATGATG ANTACACAAG CTCAGTAGGC TCCAAATTC CAGTCCGGTG GTCCCCACCG 300  
GANGTCCTGA TGTATAGCAA GTTCAGCAGC AAATNTGACA TTTGGGCTTT TGGGGTTTGT 360  
ATGTGGGAAA TTTACTNCCT GGGGAN 386

SEQ ID NO:7360

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08601

SEQUENCE DESCRIPTION:

GATCCGGGNA TTATACAGGT ACTGTTGGAA GTATCTTGGG GATTTTCCTG ATAAGAACAG 60  
TAGTGATTGN ATAAAAAGGA CAGGATGTAA AGTGAAATCA GTAAATATC TTAGTAGACA 120  
GAGGGTGCTG AAATTTTAAAC AAATGTGTAA AAAGTTCTTC CTATGCATTA ATTTTCCAGA 180  
TACCCTTAAA ATGTTTAAGG AATGTAATTC AAAATACTGT TTAANAGAGA CATGTGACCA 240



TCATTCTCCC AGCGAATGTG AATCATTTAG TGNGCTACTC AAAATTAGGN GTAAATGTAT 300  
 ATGTACACTA TAAGANTAAN ANTCGNTACC ATTTCTTTAA A 341

SEQ ID NO:7361

LENGTH:92

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08602

SEQUENCE DESCRIPTION:

GATCCGTCAG NCGACTCTAA AGCTAATTGT TTGTATTGGC ATGGNTTTTG CCAGGCATCC 60  
 AAAATTCAGA TTAACAACC AATGCAATCA AA 92

SEQ ID NO:7362

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08603

SEQUENCE DESCRIPTION:

GATCTCGTCT GAAACAGTGT TTGGAAGTGG GAACAGTTTT GTCCTGTATG CTGATGTGTC 60  
 CAGAATTCA TTTAATGATA GACGGAAAAT GTGTGGTTAC TGAAACTGT ATATGATACA 120  
 GAATTCATA AGAGCCATGC TGTTGGGCAA AGCAACTCTT TTTCAACCAC TGCTCATCAG 180  
 TTTCTGTAGA GACAAAACT CTGTACATAT TTTGGAATCT GAAGAATCCT ATGTAAATCA 240  
 TTTGTTACTT AAGTCTGTGA AAAACATATT TCTTTGGAGG AAAATGTATG CATTATAAG 300  
 TGTTCATGG AATCAGTTTT TATTGTATCG ATATAATTGT CTCTAAGTGT TGA CTGTCN 359

SEQ ID NO:7363

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08604

SEQUENCE DESCRIPTION:

GATCTCCTTA CACTGCTATT CCAGAGGAGA AGNCACCAGG TCACTCAACT CTTAGTATCA 60  
 TCTACTGGAA ACTGGCTAAG ACAGTATTTA TGTGCTTCTC TCACAATAAC AGGAAGATAN 120  
 CTATATCACA CAATGGATAT GGCAGTTGGC TTGACTGCAG TAATCATTTA ACTATGTATA 180  
 TGTATATCAA AACATCATGT TGCATACCTT AAATATGTAC AATAAAAAATA AAATCTAAAG 240  
 GANATAANTT AANATTACCT TCCACCAGGC AAA 273

SEQ ID NO:7364

LENGTH:358

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08605

SEQUENCE DESCRIPTION:

GATCAGGGAT GCAGTACCAC TTGCAGTCAA ATGAATTCCT TCGAAATGTA TTTNNACTTG 60  
 GACCCCACT GATGCTTGAT GCTGCAACGC TTAACACGAT GAAGATTTCT CGTTTCGAAA 120

GGCATTATA TAACTCTGCA GCCTTCAAAG CTCGAACCAA AGCTAGAAGC AAATGTCGAG 180  
 ATAAGAGAGC AGATGTTGGA GAATTCTTCT AGATTTTCAG AACTTGAAGA CTATTTTCTA 240  
 ATTTCTATTT TTTTCTAN TTCAATGTAT TTAAACTCTA GACACAGTTT TTATCCTGGA 300  
 TTAACCTAGA TAACTTTTGT AGCAGTGGTT ATATTGCTTA TAATTTAATG TACAATTN 358

SEQ ID NO:7365

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08606

SEQUENCE DESCRIPTION:

GATCTACNGT GAATATAAAA TGTTATTAGC CTTATCAAAT AAATAAATGA GCANAGCTCT 60  
 TTGTTGCTC TATTGAACTG GGTGATAATN ATTTAGATGT GAATGTTAGG TCAGTTCTAC 120  
 TGTAATAACT AATCGTAAAA GTTGTAATN TGTTAATGG ATGAAATGTA CANTTTTGT 180  
 ATTCTNTACA GCTTTGTCTT TTTTAAATAT GAAGTACTTA AATGTACTTA CTATGATAGG 240  
 AAATATAATG TGTGCCTTCT AAA 263

SEQ ID NO:7366

LENGTH:366

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08607

SEQUENCE DESCRIPTION:

GATCTAAGTA AAATGTTTTG AAGTTTATCA GAAACTAAAT GTACTTTTAA AACGTATAGG 60  
 GTCAGGGTTG GGGGAAAAAT ACAGGTATAG TAAGNAAGAA AAGTGACCCA TGAAGAAAGC 120  
 ATCGTGAGGT TGTATGTTGG TTGACTGTGA TTAAATGCG GGGCTGGTGT AAGTTGTAAG 180  
 TGGTGGCTGA TTGCCGTGTA ACTATGTACA TGATTGTTGG GATGGCTGTC CCATATTTTG 240  
 TATATTGGAA TAAAAATTC TATAANTTAT NGTAACTAAA AGTAAATATT CTAAATTAAG 300  
 TCCCACTNCT TAAGTCACAT GGCTTCTGTC TTGGGAATT TACCTTTTAA NANGATTATT 360  
 TTNAGN 366

SEQ ID NO:7367

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08608

SEQUENCE DESCRIPTION:

GATCTTGGCT GTTCTTTCTA TTCTGCCAGC CATCTTCCAA AAAAACTAA AGCAGAAATT 60  
 TGAGTAAAAA TAATCATCTG ATTTTAAGTT TTGCTGTCAT CACCATCTCA GGATTAACAG 120  
 CTGCGACTTT AGGTGGGGTA TATTTCTTC TCCTAAGAGA ATAGACAGTT TTTCCAGATT 180  
 CATCATCATT GACTGTCAAG AAAGGACCCT TCAGCAAGGC TGTACCNTCA ATGCAGTTGA 240  
 TGGCCTGTNT TCACGGNTT ACAGACTTGG CCTGATGCCC ATGTAANTTC AAGCTTTGGC 300  
 TTGTGGNAAC AACCACANGG ANGCAAGGC ATCTGTNGGT GCGGGNGGGC AAAGCAGGCT 360  
 TANCTNGGGN GGTGACN 378

SEQ ID NO:7368

LENGTH:421

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08609

## SEQUENCE DESCRIPTION:

GATCTAGAAA CCCTTTTACC TGGCCCAAG GCTCTAGCCA GTGGTCTCTG GTGACCCCTG 60  
CAAGCTCAGA GATGGGGNTG TTGTGTGCCA GGCATGAGCT TCCCAAGAG GCAGAGGGCA 120  
TACATCCCAT TTATACATTC CCTAAGCCCA CCCCTGTNTC CTCAGGCACC ACCTGCCCTG 180  
GTCAGCTCCA GCCAGTCCCT GCTGGAGTGG TGCCAGGAAG TNACCACTGG CTACCGTGGG 240  
GTCCGAATCA CCAACTTNAC CACATNNTGG CGCAACGGCT TGGCCTTCTG TGCCATCCTG 300  
CACNGATTNT ACCCAGACAA GATGTGAGCT GCCAGAGGGG TGGGACGAAT GGGGGAGCCA 360  
TCAGGGAGGG CAGTNTGGAC CCAGCTTTGA CCAGANAATT TTTNGAGTGC TTTGCTNGTT 420  
N 421

SEQ ID NO:7369

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08610

## SEQUENCE DESCRIPTION:

GATCAGCAAT GAGTCGGCAA TTGACTTCTA CAGGAAGTTT GGCTTTGAGA TTATTGAGAC 60  
AAAGAAGAAC TACTATAAGA GGATAGAGCC CGCAGATGCT CATGTGCTGC AGAAAAACCT 120  
CAAAGTTCCT NCTGGTAAGA CNNCAGNTGT NAAAANGCCA GCAACCTGNC CAATTCCAN 180  
TGANCCTTN 189

SEQ ID NO:7370

LENGTH:147

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08611

## SEQUENCE DESCRIPTION:

GATCTGGTGG AGAAAAAG CAAAACCTTG TTTTAATTTA CTGTTTTTTT AAAATCTTTT 60  
TGGATATTGT TTTGCATCCC ATACATTGCG AACTGGCAAT GAAATGTAAG CTTTGGTTCT 120  
GAAAAAAAT AAATGTAGCT ATTCAAA 147

SEQ ID NO:7371

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08612

## SEQUENCE DESCRIPTION:

GATCCACATG CNTGTGGCAG CCCAAGGCTT TGTTGTAGGA GCAATGACTN TTGGTATGGN 60  
CTATNCCATG TATCGGGAAT NCTGGGCAAA ACCTAAGCCT TAGAAGAN 108

SEQ ID NO:7372

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08613

SEQUENCE DESCRIPTION:

```
GATCTTTGAG CTGTGGTTTC TCCACCTGTG GAATATAAAT GTNAACAACA TAACCTTCTT 60
TCTAAGGATA ACTTGAGAAT TAACAGTGCA AGTAAATGGA AAGTATAGTA CCTGTNACCA 120
GATATTTAAT AGTAGTTATT ACGAAATTGT AACTCACTAC CTGTNTTAGT TGAGGTTTAT 180
CTTCAGCCAT GCAAAATCAAA ATCAGATTAT TTNCACATCA GCAGATAAGG TTTGTNTGAG 240
ANTCTNATTT TNNATTGNT ACTCTNATTT NNN 273
```

SEQ ID NO:7373

LENGTH:419

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08614

SEQUENCE DESCRIPTION:

```
GATCACAGAT GTAGTTCCTG AGGTTGAGTC TCCTTCTCAG ATGGATGTTG AATTGGTGAG 60
TGGGTCTCCT GTGGCACTCT CACCCAGCC TCGATGTGTG AGGTCTGGTT GTNAGAACCC 120
TCCCATTGTG AGTAAGGACT GGGACAATGA ATACTGCAGC AATGAGTGTG TGGTGAAGCA 180
CTGCAGGGAT GTATTCTTGG CCTGGGTAGC CTCTAGAAAT TCAAACACAG TGGTGTGTTGT 240
NAAATAGTCC TTCCTGTTCT CCAAGCCAGT GAAGAGTTAT CTGCTGGGAA AGTGTCCAAG 300
AGCCTGTTTT TGAAACACAA GCTGGGCTTC TGGTAGTGCC TCATCACAAAC CCATGATGGC 360
TGTTTCATGGT TTCACCCCTT TTNTTTCNT CAGCAGAGGC CAGGCTATTG GAGCAGTTN 419
```

SEQ ID NO:7374

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08615

SEQUENCE DESCRIPTION:

```
GATCCTAATT TGCACACTAT CACCTAAAGT CCTAGCATAC CTGCATTTC AGGAAATCTA 60
ATGAGAAAGA AGTCCTGAAA GCCTCTAATT CCTGGAAACA TATGAAACGG CTAGAAAAAA 120
GTAGACTATT TTGGAGGATT AAAGACAATG GAAACTTTTT ACATTGTTTG TCTCACATAA 180
TGAATAAAAT TCCACTTTAA AAAATGAAA 209
```

SEQ ID NO:7375

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08616

SEQUENCE DESCRIPTION:

```
GATCCGCAGC TCGAAAAAGA ACAAGCCACA GAANCGGGCT CGCTCGTGCC AGGACACAGC 60
AGTGTCTTTA AAAAAATCAA AACCAGAAGT TTTATCAGCA GCAGGAAGNN TGTGGGACTC 120
```

TGTCCAAGTT CACCGTCACC ATCAAGCCAC TGGCTGTGGA AGGAGTTTNT CCAACAGGGT 180  
 CAGTGTGACA GCCACAACCT CAGAAAGCAG CCATCCCGCG TGTCGTCAA ACAGCAGTGC 240  
 CTGCNTCCCG CTCCACGGAG TGTTCCNGAA CACCTCCCTC TGAACATAAT CCGGAGCACC 300  
 CCACCCCCAG CGAGTCCAC CTGGACCTNT TCAAAGTCAA AACTCTTCTT TNGGGCCAAC 360  
 CAATTNTTCG GGCTTTNGAG GCCTTGAAC TGGGGCACCA AGTTTNTTTC CATGGGAANT 420  
 TN 422

SEQ ID NO:7376

LENGTH:413

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08617

SEQUENCE DESCRIPTION:

GATCCCACCA GTTCTGGAC GTGGAGAGTC TGGGGCATCT CCTTCTTATG CCAAGGGGCG 60  
 CITNNNGTTT TCATGGCTGC CCCTCCAGAC TGGGAGAAAC AAGTAAAAAC CCATTGGGGC 120  
 CTCTTGATGT CTGGNATGGC ACGTGGCCCG ACCTCCACAA GCTCCCTCAT GCTTCTGTG 180  
 CCCCCTTAC ACGACAACGG GCCAGACCAC GGAAGGACG GTGTTGTNT CTGAGGGAGC 240  
 TGCTGGCCAC AGTGAACACC CACGTTTATT CCTGCCTGCT CCGGCCAGGA CTGAACCCCT 300  
 TCTCCACACC TGAACAGTTG GCTCAAGGGC CACCAGAAGC ATTTNTTAT TATTATTATT 360  
 TTTAACCTG GACATGCATT AAAGGGTCTA TTAGCTTCA GAAAAAAAAA ATN 413

SEQ ID NO:7377

LENGTH:157

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08618

SEQUENCE DESCRIPTION:

GATCCACAAA TGAAAGGGAT ATAAAAATAA TGTCATAGGT AAGAAACACA GCAACAATGA 60  
 CTTAACCATA TAAATGTGGA GGCTATCAAC AAAGAATGGG CTGAAACAT TATAAANTT 120  
 GACAATGATT TATTAATAT GTTNCCTCAA TTGTAAA 157

SEQ ID NO:7378

LENGTH:399

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08619

SEQUENCE DESCRIPTION:

GATCCTAACA GCTTGCAAT TTTGGTGCAT CTGCTCAATC AAGTCTAATA GACACAAGGA 60  
 TGGCTTTTCAT CGGCTCAGGC AGCATCATGA TGAGTATGAA GATGNAATTC GCATGATGTC 120  
 TACCGGCTCC AAGAAGTCCC TCCTAAGCCA TGAGTTCCAG GATGAAACAG AACTGAAGA 180  
 GGAACATTA TATTCTAGCA AACATTGGNG GNCACATTTT GCATATCTCC CAGCATAAGT 240  
 ACCAAGCAAA ATTACAGTTC CTCTTGGGAG AACACTGCAT TAAGGATGCG AGACTCTCTT 300  
 GCTTCTTCAA AGNGCTTTTG GGAATTTAAA TTGCTAANTA TGTATTCTCA AAANAANNNN 360  
 NGGGANNTTT GGGGGGNTG GGTTTTNCGG AGNGANGNN 399

SEQ ID NO:7379

LENGTH:34

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08620

SEQUENCE DESCRIPTION:

GATCGGTCCC TAAACCTCAT TAAAATATTT GAAA

34

SEQ ID NO:7380

LENGTH:405

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08621

SEQUENCE DESCRIPTION:

GATCTNATGG ATATGGCAGT GGACGTGGAT TTGGGGATGG CTATAATGGG NATGGAGGAG 60  
GACCTGGAGG TGGCAATTTT GGAGGTAGCC CCGNTTATGG AGGAGGAAGA GGAGGATATG 120  
GTGGTGGAGG ACCTGGATAT GGCAACCAGG GTGGGGNCTA CGGAGGTNGT TATGACAACT 180  
ATGGAGGAGG AAATNATGGA AGTGGAAATT ACAATNATTT TNGAAATTAT ANCCAGCAAC 240  
CTTCTAACTA CGGTCCAATG TNGAGTGGAA ACTTTGGTGG TAGCAGGAAC ATGGGGGNAC 300  
CATATGGTGG AGGAAACTAT GGTCCAGNAG GCAGTNGAGG AAGTNGGGGT TATTGTNGGA 360  
NGGNGCCGAT ACTGAGCTTC CTTCTATTT NNCCATGGCA TTTNN 405

SEQ ID NO:7381

LENGTH:261

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08622

SEQUENCE DESCRIPTION:

GATCCTAGCC AGATTACCAG AAATTNCGTT AGTCATCTAA ATCAGAGACA TCAATTTNAT 60  
TATGGAGAAT TTNTGAATCT CCAGCTAGAT GANGAAACCC AATACCAAAC TCCTGTTGAA 120  
GAATCTTTNC AAGTAAACAT CTGAAGGCTG TAGACATCTC TCCATCTTTG TACCTGCAAG 180  
TCCCATCTTT AAGGGGGAAA CTACATGANG TCACCGTTAC AGTAACTTGA TGTGTATATT 240  
AATAAAAGTA ATTCAGTCAA A 261

SEQ ID NO:7382

LENGTH:44

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08623

SEQUENCE DESCRIPTION:

GATCTATGTA TAGATAAAGA TTAAACATAT CTAGTACAAG GAAA

44

SEQ ID NO:7383

LENGTH:109

TYPE:nucleic acid

02091

TOPOLOGY:linear

CLONE:HUMGS08624

SEQUENCE DESCRIPTION:

GATCTGTTTC TTAAAGCTAC AGGGTTTAAA AAATAAAAT GAGTGAAAAT ACTTGATGTT 60  
TCTTGAAAGA TAAATTTAAT AATAATAAAT AAATACATAA ATACATAAA 109

SEQ ID NO:7384

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08625

SEQUENCE DESCRIPTION:

GATCATTGTG GCGTCCACAA TGTATATATA AAACAAGTTG TACACATTAC CATGTATAAA 60  
TTTGTGTTTG TCGATTATAT GTCAAGAAAG AAA 93

SEQ ID NO:7385

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08626

SEQUENCE DESCRIPTION:

GATCTTAATC TTATTCTCTG CCATCTTCAA ATTAAAAAAA AATTCTTTG TAAA 54

SEQ ID NO:7386

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08627

SEQUENCE DESCRIPTION:

GATCCCTTCA GAAGAAGACA TGATAGGATT GTAAGTTTTT NTCTAACTTT GGATGCAGTG 60  
AGATGACCAG TGTGTTCCAG TTAAAGAAGA AGAGTGTTTT AAAATCATAA ACCAAATAAA 120  
GAATCCTACC TTACATTAAA 140

SEQ ID NO:7387

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08628

SEQUENCE DESCRIPTION:

GATCCACCCA CCTCAGCCTC CCAAAGTGCT GGGATTACAA GCGTGANCAC TGTGCCTGGC 60  
CCTTTTTTTT TTAAAGAGA TGGCATCTTG CTATGTCGTC CAGGCTGGTN TTGAACTCCT 120  
GAGTTCAAGC AGTCCTCCTG NTTCAACATA CAGNTACAGG TACCCCCCAC TATACATTTT 180  
NAATANGGNT TCATGGNTCA GNGGGN 206

SEQ ID NO:7388

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08629

SEQUENCE DESCRIPTION:

GATCCCATG CTTTCCTGTT TAAAAATAT TTTATGCTCT TTATTTCCAC TTCTGTGAAT 60  
GTGATATTC TATTTTNTGA TTATGTTACT GAATAACAA ACTTGCTACA TAAATNCTT 120  
AGCAATTAAA 130

SEQ ID NO:7389

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08630

SEQUENCE DESCRIPTION:

GATCCAATTG TGGATTATT TACAAACATC AAATGCCTTC AAGCCAATCC TNITTGCTGT 60  
ATGTTTTGCA GCCTACTGTA GTAGATACGC AACAGATAAT GTGGGAAAAA AAGAGATAAG 120  
AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT CTTGGTTTCT TTAAAGAATT 180  
TGTTCCTTT NTACTATNNC AGCAAAGCAG CATTTTGTTA CTGACTGCCT AAAATCACTT 240  
AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTTGGAATG CTATTTGTGT TTTGTTGCAC 300  
TGTTTTTTC GTTTGTTGT TTGTTATTT GGTGGCTTT TTGGAGAGGG AAATN 355

SEQ ID NO:7390

LENGTH:96

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08631

SEQUENCE DESCRIPTION:

GATCTAAAT NAGAGAAGCA TTTAAAAAT NATTTCTGTC TTGGTTCATC TTATTGTTAG 60  
TGTTTATGC TAATAAAAT TGATTAAACA ATCAA 96

SEQ ID NO:7391

LENGTH:411

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08632

SEQUENCE DESCRIPTION:

GATCCAGATA TGTCTGTTAT GAAAGATATC AGTATAGGTA AAGCCACAGG CAGAGGTCAG 60  
TACTGATAAT TAATGTAGTA TAAATACATC ATTTACCATT TTATTTTAAA TAGGAAGCCA 120  
TCAAGCATGC TAGAATTGTG AACTTTCATT ATATNTTTT GTTGTGACA TGAATTAACC 180  
TGGCCAAAAA CAAAAAGAA NNAAAAAACC ATGCCATTG TCATGTAAAC CTTTTTTTA 240  
TCCCTATGGG CCTTNGGGGN CNGAATCAGT ACTTCAGTTA TTGTAATNGT GNGCTAACCT 300  
CAAATTTNTN TCACCCNGTT GCCCTTTCA TGNCTAACC AATTNTCTGG GGGNTTGGTA 360  
TGTTTCNCCC GGTCTGNTC ATGTTTACCG NNCTCTTTT TNGNGGTCC N 411



SEQ ID NO:7392

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08633

SEQUENCE DESCRIPTION:

GATCTAAGTT CTAAGCCAAA TAACTAACAA ATTCCAGGTA CTATGCCATC ATATAATATT 60  
 TATAAATGTG TTATATATAT TATGAGATAT GTATAAGAAT ATAGAATGAA TATGTAATAA 120  
 ATTATACTTT TAAATTAATA TTTTCAAATA TATAAATATG TAGTTTCAGA CTGAAACTGT 180  
 TCTAAACTAT ATAAATGTAT TATGTATGTT TTATAAATA CAGTACTCAT AATATGTATT 240  
 ATATGAAA 248

SEQ ID NO:7393

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08634

SEQUENCE DESCRIPTION:

GATCCTTCCA CCTCAGCCTC CCCAGTAGCT GGGACTACGG GGTGCGCCACT GCACCCAGCC 60  
 TGTGTCTTCC AGCTCTAATC AGAAAGCTGC TTGTGAGGG CATGGGGAAT CAAACTGAAT 120  
 GAACTTTTCT CTGCACTGTG GCAAAACTGT TATTTTATG GATTTTACTA AATGGCGTTA 180  
 CCTTTTCAAG ATTTATATGT TTGTATAATC ATAAGAAAAT TGAGCCATTA AAGCCTTGTT 240  
 ATTCAAA 247

SEQ ID NO:7394

LENGTH:108

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08635

SEQUENCE DESCRIPTION:

GATCCAGGCT CGTAGNTCAC TCCCTGCCCG TNTCCCAGAG ATGCTTCACC ANCACCTGCC 60  
 TCTGAGACCT CGCTCTCTGT TCCAGCAACC CTGGNTTGGG GGGTCANN 108

SEQ ID NO:7395

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08636

SEQUENCE DESCRIPTION:

GATCTTGAGC TCCTGGCCTC CAGAATTGCA GGAGAATAAA TNTGTGTTGT TTTAATGAA 60  
 A 61

SEQ ID NO:7396

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08637

SEQUENCE DESCRIPTION:

GATCAGTGTG TGNTTGGGAC TGAAGGGATG ACTAATAAGG AGCAGAGGAA AGCTTTTGGG 60  
GATGATGGCA CTCTTCTCTG TCTCCATTAC GGCATTGGAT ACAAGTCTCT AGAACTCCCA 120  
GAACTCGTCA CTGAAAGGGG TGAATAGTAC TGTATGTAAA TTAGGTCCNN ATTTTNAAT 180  
GGGANAAATA AATATAAGA CAAATTACAC TGCTGTATTA NNTCANNTGA TAGATGTAAA 240  
AGTCTAATAT ATACGTNTTT TTCNTGATAN NCCCN 275

SEQ ID NO:7397

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08638

SEQUENCE DESCRIPTION:

GATCCACGCC CTTCCGCCA GTCTGGAGAG GGCCCTGACC GAGGACTCAA CCCAAACCAG 60  
TGACACAGCT ACCAATTCTA CTTTACCTTC TGCAGAGGTG GCGTTACAGG CAAAGTGAGG 120  
AGGGAGCTGG GGGACACTTT CGAGCTCCCA GCTCCAGCTT CGTCTCACCT TGAGTTAGGC 180  
TGAGCCACAG GCATTTCCTG CTTATTTTAG GATTACCCAC TCATCAGAAA AAAAAAAG 240  
GCCTTTGTGN CCCNTGTTTT GGGGGGATTA ACCNGTTTG GGTTTAAA 288

SEQ ID NO:7398

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08639

SEQUENCE DESCRIPTION:

GATCTAATTN CTATTCATT TATTCAGAAA TAGCATTTAG ACATAAAANC CAATGTCTCA 60  
CTTTGTAAAA TAACCTTTGG CTAATTTACA CACATCTAAT ACAGCGTGTT ATATAAGTTT 120  
TAAGTAATAC AATGAGTCAC TACTATCATT CAGTTTAAAN TATTTNNGT GTTAACAGGG 180  
CTGAGAATAT CATGTGGTTC AGTCTTCTGN NGGNCGTTAT ATNATACCNG CNTAGTGCCT 240  
TTGACCATGC NGAATATCCT CAAGGCCAGA CATCCTACAN CGGAACTGNN 290

SEQ ID NO:7399

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08640

SEQUENCE DESCRIPTION:

GATCCNTAAG TACTCTTCTC TANAGAATAA AATGCATTAC CTAGGCTTTA ATAGTTAAAA 60  
GCTGGNATTT ATNGACCCGC ATCTACTTGA TTTCANAATA TGCATTGATT TTAGTATGTT 120  
GCTGNTCTGT TATCTGTACT CAACTATANC AGAGTAATAT ATTGTGGTNT TCTGGACCAA 180  
AANTCGTGCT ACACATATGT CTGATGGCCT TNACCTTTTC ANGACAACAG TTGCAATTTT 240  
GAGCACAGTC CNCCTAGTGG TANTCTN 267

SEQ ID NO:7400

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08641

SEQUENCE DESCRIPTION:

GATCGGGAGC AGCCCCACTG GACCTAGGTG CCCCATCTGT TGGTCATCCA TCCTGAAGGG 60  
ACAGGAAACC TCCCAGGCAG TTATTTTTTT TTCTCTATAT TTCTAGTAAA GTTTTCGATA 120  
TGTTAAA 127

SEQ ID NO:7401

LENGTH:168

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08642

SEQUENCE DESCRIPTION:

GATCACTAGT GCAGGAGAAC ATTACATTTT CTTCTGAAGG CAAAATGCTT GTAGGTTTTG 60  
CCTCTACTTT GTATTTACTT TTAATAATTGC ACTTGTTTAC CTACCAGTGT TTACGAAATC 120  
CTGTATTTGG GATGCTTTTT CTATAATAAA ATATTATAAT TTGTGAAA 168

SEQ ID NO:7402

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08643

SEQUENCE DESCRIPTION:

GATCATAGTA AAGAGTAGTC AATAGGGTCT TCAGCTATTA ATTGTAGAGG TGATTA AAC 60  
CAACAAGGAG TTTCATGTGC AAAGGAGATA AGGAATGAAT ATAAAGATTG CTATTGGGT 120  
GGCTCTTATT AAAGTGTGTA TTTTGTACTT ATCACTACAC GTATCCCCCA AATGCTTACA 180  
TGGGAGTTTG AGGTTAGTAT TTTCACCTCC TTGGTGTTAG TACTCTATTC ACATTCTTAT 240  
TGTAACCTTC CTCATTTTAC AGATAAGGAA TCTTTGGGGA TTAACCAACC TCCTTTCTGT 300  
AATGGTAATC ATTAAANTAA GTN 323

SEQ ID NO:7403

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08644

SEQUENCE DESCRIPTION:

GATCACTTAN GCCCAGGAGG CAGAGGTCAC AATGAGCCGA AATTGTGCCA ACTGCACTCC 60  
AGCCTGGGCA ACAGAGGAAG ACTCTTCACA GAAA 94

SEQ ID NO:7404

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08645

SEQUENCE DESCRIPTION:

GATCGGGGCT TTGTGTTTAA CCTCATCAGA CATTATTGCA GCCAGCTGTC AGCCAAGCTC 60  
AGTAACCTTC CAACGCTCAT TTCCATGAGG CTAGAGTTCC TGAGAATCCT CTGTAGCCAT 120  
GAGCATTACC TCAATCTGAA CCTTTTTTTT ATGAATGCTG ATACTGNTCC NACATCTCCT 180  
TGTCCTTCCA TATCTTCCCA GGTAAATAAA GAATTATTTA ACTAAA 226

SEQ ID NO:7405

LENGTH:124

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08646

SEQUENCE DESCRIPTION:

GATCCAGTCA GAGCCAGGGA GAGTGTGTTGC CTTAAGGAGG GACTCCCTTG TCCAGGATGG 60  
GGCTGGCACT AGGGATGGGG TGAATCTTAG GACAGGAGTG GGGGTCAGAA ATGGGAGGGG 120  
TAAA 124

SEQ ID NO:7406

LENGTH:206

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08647

SEQUENCE DESCRIPTION:

GATCGACCAG CAGGTGGTCT ATATCCATCC TTCCAGTGCC CTCTTCAACA GACAGCCAGA 60  
ATGCCCAAAG AACTTCCTCC CTNTGGTTGC TGTAGGTGTC TCATTGGAGC AGTGCCTCTC 120  
CAAGTTTGAG GATNTGAACA AAGAACTGGG ACTGGTGACT TGTNANNGNN NAGTTCAGAG 180  
GGCAGAGGNC CATCATCTCA GCTTNN 206

SEQ ID NO:7407

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08648

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGNGAAGAT TCAGGGACTG ANTAGAGGGA AAATCGTGCT 60  
ATNCGGTAGC TACAGCAGCC CTGGGAATNC CNTTTTGTCG AGN 103

SEQ ID NO:7408

LENGTH:116

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08649

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCGGGNCTGG CTGAGGAAAA ANCGGCTGGT 60

GGTAGCTACA GCANCCCTTG GAATACCCCTT TTGTCGAGGT TTTGGGNATT GTCTCN 116

SEQ ID NO:7409

LENGTH:60

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08650

SEQUENCE DESCRIPTION:

GATCTATCAT GTATCTTGGT GATTACAGTT AATAATATAT TGTATATTTG ANAATNGAAA 60

SEQ ID NO:7410

LENGTH:91

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08651

SEQUENCE DESCRIPTION:

GATCGCACCA CCGCACTCCA GCCTGGGCAA CAGAGCAAGA CTGTTTCAAA ATAAATAAAT 60  
AAATAATAA ATAANNCTTT CCAACTNCAA A 91

SEQ ID NO:7411

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08652

SEQUENCE DESCRIPTION:

GATCTTGTGG CTAAACCAGC ATTTCTGTGT TTGAGAGATT TCCTGTTAGG TGCTTCGTCT 60  
GAAAGTGAAC TCTCATAATT CAAATTGTAT AAANTAAAGC TACATTTCTA AGAGCTTGGT 120  
GTAGGGCAAT TGAATANTG TCCTGTTAGA TAAACAGACA TTAGCANTC CTGACATTAA 180  
AAGGAAATGT ATTTCTATAC AGGATTATTA GCTGTANTAC ANGATATTTA TTTANCCAAA 240

SEQ ID NO:7412

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08653

SEQUENCE DESCRIPTION:

GATCGCACCA CTGAACCTCA GCCCGNATGA CAGAGTGAGA CCCTGTTTCT AAAAACA AAAA 60  
CAAACAAACA AACAAACAAC GTATCTTACT GACTAAACTG GAATGGAAAT CTTATAATNA 120  
GTGTTGTATT TTTCTGCAAA ATAGTGAATT NGNACTTGGG AGACTTCNNN NCTTTGTTGA 180  
AAAAAATTGC CTTTGTTTTG AAATTATATC ACCTGTGTTC TGANCTAAAA TGNTGGGAGT 240  
TCATNNN 247

SEQ ID NO:7413

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08654

SEQUENCE DESCRIPTION:

GATCCATAAG GAGGGCTGTG TGGAGAAGAT TCAGGNANCT GACTGAGGAA AAATNTGCTG 60  
GTGGTAGNTA CAGCANCCCT TGGAATACCC TTTGTGCGAA AAATAAAGGA ATTGTCTTCA 120  
NCCTGCTN 128

SEQ ID NO:7414

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08655

SEQUENCE DESCRIPTION:

GATCCATAAG NAGGGCTGTG TGGAGAAGAT TCAGGGAGCT GACTANAGGA AAAATGTGCT 60  
GGTGGNANAT ACAGCAACCC TTGGAATANC CTTTGTGCGA GAATAAAGGA ATTGTCTN 118

SEQ ID NO:7415

LENGTH:151

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08656

SEQUENCE DESCRIPTION:

GATCTTTNTN ATATATGCAG TCCCATCCCT TCTGTGCCAC TCAATGCCAT CCAGACATGG 60  
TTTNCCTC CANGGGCCTT TCTCTCCAGA GGGCACTTCG GCTGCCTCTG CTTCTCTCA 120  
TTCGAGGCC GNCTCTTNT NACAGAATAG N 151

SEQ ID NO:7416

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08657

SEQUENCE DESCRIPTION:

GATCCCGTTG CCTCATGGAA CTCATGCATT TCACGCTGCT TGCCCTTTCT GTGCTACACA 60  
GCTGGTTGGG GNGCAAACT GCATCAAATT AATTNCCAA GGTCCAATTG ACTGACGCC 120  
TTGACAGCCA TCTACGACTT TATTAACAGG TTAGTGTGAA GATTTNCCA CTAACCTAG 180  
ATTTNCCTT TTTGTAATGC TGTTTATCAG AGGCGGGTGA CANGGGCTGG AAATAAAGNG 240  
AGGGGACATG GTGATGAAAC ATGGCAGGNG TGTACAGATA CCAGTGGTGT GTTGCATGCT 300  
CAANACAGCA GCGTCGTCAA TGGCGTCTGC TTGNTTGNNC CATNATGTCT TTGCATAAT 360  
TGGNAANNA NNNN 374

SEQ ID NO:7417

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08658

## SEQUENCE DESCRIPTION:

GATCTTTATG TCACTAGTTA TAGTTAAGTT CATTGAGACA TAATTATATA AAAACTACGT 60  
 GGATGTACCG TCATTGAGG ACTTGCTTAC TAAAACTACA AAACCTCAAA 110

SEQ ID NO:7418

LENGTH:232

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08659

## SEQUENCE DESCRIPTION:

GATCTTTTTA ATTCAGTACA ATCTCTGAAG GTGTAAACAC TAATNTTTTA CAAGAATGTA 60  
 GAGGCGACTC GGTGCTATGA AGCGTGTTAA ACAACTCACA CAATTGCTAC AAAACACCAG 120  
 GGAGGGGCTT TTTGTGTTTT TAATTTTTAA AACATTTTTTC CTTTCTTGT GAGCCATAGT 180  
 AGGCCTAGAG AGATTACTGG GTTTTTATAA TAAACATT ATTTCGGTGA AA 232

SEQ ID NO:7419

LENGTH:370

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08660

## SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGACATT GTCTGAATAC AGGATGCACA ATGTTGTCAA 60  
 TCCTGGAAAT GGTCTTTCTT TTTGTAAGA TATGTGAATG AAGTGTGGT GTCCTCACCA 120  
 AGAGGTGGCA CCTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180  
 GTATAANCAN CTNNNGTATA TACATATAAG GATAGCTTTT TTGACCTATA CAGCTGTNCA 240  
 TAAAAGTAGC TGATATTAGT TAGGCCTGTG TCACCAGTTT GGNTTTTTTN CACTGGTNCA 300  
 TTTGGGATTT NNTTTTNGGT GGTAAAAAT GGCATATGCT AAGGTGTGTG ATTGGGAANA 360  
 AANNANNANN 370

SEQ ID NO:7420

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08661

## SEQUENCE DESCRIPTION:

GATCTGTGTT TTAATGAGTT TCACAGTGTG ATTTTGATTA TNAATTGTGC AAGCTTTTCC 60  
 TAATAAACGT GGAGAATCAC AAA 83

SEQ ID NO:7421

LENGTH:394

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08662

## SEQUENCE DESCRIPTION:

GATCCTCTCT TACCCCGTCC CCAGGTTTGA AACACATAGC CTCATTTCAA GGTGTAGCCA 60

## DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET  
COMPREND PLUS D'UN TOME.

CECI EST LE TOME \_\_\_\_\_ DE \_\_\_\_\_

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

2153480

## JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE  
THAN ONE VOLUME

THIS IS VOLUME 7 OF 8

NOTE: For additional volumes please contact the Canadian Patent Office



## DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET  
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## JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE  
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THIS IS VOLUME 8 OF 8

NOTE: For additional volumes please contact the Canadian Patent Office

GGTCCCCCG ACTTTCCTCT GGGATATAAA AAAGGGGGTA AGGGGGCAAA GAGAGCCCTC 120  
 TGGGACTCTC CTCCCATACA CACTACACTG CCCCTTCTCC CCCCATCAA ACGCTCAGNG 180  
 ACGTTGTGAT GATGCGACTG AGGATTATGC AACGTGGTCC AACC GGAGCG GNCAGCATGA 240  
 CCAGCTGTCC AGGGGCTGNC TNCTGCCTTT TCTTTTGTA AAGCCANGAC CCTTGGGGAG 300  
 TTTTAATNCT GTTTTGTACT TGNCTGTGG GGNCTNCACT TGCTTTTCT ATGGGAGACA 360  
 CTTTNAAT TTAACAAGNT GNGGGTTTT TGNN 394

SEQ ID NO:7422

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08663

SEQUENCE DESCRIPTION:

GATCCCCATG CCTGAGGGCC CTCGGCTGG CCTGGGCATG TGATGGCTCC TCACTGGGAG 60  
 CCTGTGGGGG AGGCTCAGGT GTCTGGAGGG GGTGTGTGCC TGATAACGTA ATAACACCAG 120  
 TGGAGACTTG CAAA 134

SEQ ID NO:7423

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08664

SEQUENCE DESCRIPTION:

GATCATGNGT TTCCTCATGA GGACAAATAC CTGATTTGA ATAAAGCAGC ATTCAGTTGA 60  
 AATAACAAA 69

SEQ ID NO:7424

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08665

SEQUENCE DESCRIPTION:

GATCAACATT TTTTAAAAA GAGCATTAAA GAAAGAATTG TGGTACAATA AA 52

SEQ ID NO:7425

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08666

SEQUENCE DESCRIPTION:

GATCACACAT TCAGACTGTT GTGTCTGTGG AGTTT TAGGA GTGGGGGGTG ACCTTCTGG 60  
 TCTTTGCACT TCCATCCTCT GCNACTTCCA TCTGGCATCC CACGCGTTGT CCCCTGCACT 120  
 TCTGGAAGGC ACAGGGTGCT GCTGCCTCCT GGTCTTTGCC TTTGCTGGGC CTCTGTGCA 180  
 GGACGCTCAG CCTCAGGGCT CAGAAGGTGC CAGTCCGGTC CCAGGTCCCT TGTCCTTCC 240  
 ACAGAGGCCT TCCTAGAAGA TGCATCTAGA GTGTCAGCCT TATCAGTGTT TAAGATTTTC 300

NTTNTATTTT TAATTTTTTT GAGACAGAAT CTCACTCTCT CGNCCAGGCT GGAGTN 356

SEQ ID NO:7426

LENGTH:246

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08667

SEQUENCE DESCRIPTION:

GATCGTCGCC CCTCTGCCAA CTGCGACCCC TTTTCGGTGA CAGAAGCCCT CATCCGCACG 60  
TGTCTTCTCA ATNAAACCGG CGATGAGCCC TTCNAGTACA AAAATTAAGT GGACTAGACC 120  
TCCAGCTGTT GAGCCCCCTCC TAGTTCTTCA TCCCACTCCA ACTCTTCCCC CTCTCCCAGT 180  
TGTCCCGATT GTAACATAA GGGTGGAATA TCAAGGTCGT TTTTTCATT CCATGTGCCC 240  
AGTAAA 246

SEQ ID NO:7427

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08668

SEQUENCE DESCRIPTION:

GATCCTTGCA GGAACCTAAG GATTACAGCA GCTGCAGATG GCAGGAGCTA CAAGCCAGCA 60  
GCAGCCAATG CTCANTGGGG TACAAATGGC TCAGGCAGGT CAACCAGGGA AAATGCCAAG 120  
TGGAATAAAA ACCAACATCA AGTCGGCTTC CATGCATCCC TACCAGCGGT GAGTGTGGCT 180  
GGCAACCTCG ACTCCCTGGT GCTCTTTGCA GAGTTGGGCA GTGAAATNNN NNNNTGCTCA 240  
AGGCTCACCT AGGATGGGTA CAATAAAAAG AACATGGGCT TTCAAA 286

SEQ ID NO:7428

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08669

SEQUENCE DESCRIPTION:

GATCACTAAC AGGTGATGGG CTTTGTGCCC ACTCCAGAGA TATTGTGGGA GACAAATTCT 60  
TTTAACAGCC TGTCTCCCG GCATCAGGAG TCATTGAACA ATCATGGATT GTTGTGTTG 120  
GGATTTTTTT TTTTNGGN TTNNTTTTGG GTTTNGNGN GTGTGTGTGT GNCCTGN 177

SEQ ID NO:7429

LENGTH:388

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08670

SEQUENCE DESCRIPTION:

GATCCAGGTG GTCCAGGAGC CCAGGACAGG CCTTTNCTGT GGGCCCTGGC CAGACAGGGT 60  
TACCTGGTGA GGTGCAGAGA GTCCCTCTAG TGGCCATTTT GTATGGTAGT TGCTAATGCA 120  
GAACAAGTTC TGTCTTGGGC TTAAATTGAC TGAAGACTTT AGGGGGAAAG AATAGTAAAT 180

GCATGTAAAC AAATGGGGAC ACTCTGTTC A GGAGAATAAT CCGACTGGCA TTTGTGGCAG 240  
 TTTTGTAAAT GTAAATGTAT TCATGTGTGT TCTTGTAAT ACGTGTGCT CAGATGTCCT 300  
 TTGAAGTGGG AGGGAATCAA TCCGGGGATA ATTTCAAATG GAATAGAGTA TTTTGATATT 360  
 GTTCATTCAG AGGGTGATGT GTACACAN 388

SEQ ID NO:7430

LENGTH:392

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08671

SEQUENCE DESCRIPTION:

GATCCCCACT GTCAATGGGG GATTGTCCCA GCCCCTCTTC CTTCCCCCTC ACCTGGAAGC 60  
 TTCTTCAACC AATCCCTTCA CACTCTCTCC CCCATCCCCC CAAGATACAC ACTGGACCCT 120  
 CTCTTGCTGA ATGTGGGCAT TAATTTTTG ACTGCAGCTC TGCTTCTCCA GCCCCGCCGT 180  
 GGGTGGCAAG CTGTGTTTCAT ACCTAAATTT TCTGGAAGGG GACAGTGAAG AGAGGAGTGA 240  
 CAGGAGGGAA AGGGGGAGAC AAAACTCCTA CTCTCAACCT CACACCAACA CCTCCCATTA 300  
 TCACTCTCTC TGCCCNATT CCTTCAAGAG GAGACCCTTT GGGGACAAGG CCGTTTCTTT 360  
 GTTCTGAGC ATAAAGAGGA AAATAATCT TN 392

SEQ ID NO:7431

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08673

SEQUENCE DESCRIPTION:

GATCTTTGGG AAGGGAGACT AGGGCAGGTG GAGACAGCGC AGAACCCCGG TGCTGGGTGG 60  
 GAAGCATGAC CACACGGTGG GTGAGCAGCC CCCATGCACT GATGGTAAAT TCCCCTGTGG 120  
 ACTCAA 127

SEQ ID NO:7432

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08674

SEQUENCE DESCRIPTION:

GATCTGTCTG GCATGTCAGG AGCCAGAGAT ATTTTATAT CAAAAATTGT CCACAAGTCA 60  
 TTTGTGAAG TGAATGAAGA GGGAACAGAG GCGGCAGCTG CCACAGCAGG CATCGCAACT 120  
 TTCTGCATGT TGATGCCGA AGAAAAATTC ACTGCCGACC ATCCATTCTT TTTNNNNNTT 180  
 CGGCATAATT CCTCAGGTAG CATCCTATTC TTGGGGAGAT TTTCTCCCC TTAGAAGAAA 240  
 GAGACTGTAG CAATACAAAA ATCAAGCTTA GTGCTTTATT ACCTGAGTTT TTAATAGAG 300  
 CCAATATGTC TTTATAANCT TTNCCCANTA AAAACCCACT TGTCCCAAAG AAA 353

SEQ ID NO:7433

LENGTH:399

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08675

SEQUENCE DESCRIPTION:

GATCTAATTG GCTTTTATTA GCAATTCATG AGCCCGGCAG CATCCAGTCT ACAAATAGA 60  
AAGGAGTGCC ACTAAGCTAG ACAGAATGGA TGGGTTTTAT GGCAGAAAAA AGTGAAGCA 120  
AGCAAGAACA ATGAACAAAT TAATGGATGG ATTGTTTTAA GATTACATT CTTTATGGG 180  
AGTAAACAAA ATCTTGTTAG CCTAATGGAA TTTGGCATCA TCTCCTGATT TCTCAGAAGG 240  
TCATATCTTG TAAGTGAACC ATTTAGGTTT GGTGACCTGG NACCTTTGGC ATAANGTGAC 300  
TCCATTTTGG GGCCTGCTGC CTTTTCTTT AAAAANGGAG TGACACCNTA ATTTCCATGG 360  
GNNGAGCACA CANNATGCCC TTGTNTTGCA GGACCTNCN 399

SEQ ID NO:7434

LENGTH:230

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08676

SEQUENCE DESCRIPTION:

GATCTGACC ATATTCCTCA AGGTCTCCTT TTCCTTCCTC CAGTGTAACA AAATTCCTG 60  
CTGGCGTCTT ATGTAAAGAT AATCGGCCCT TTTGGACCT TTTGTTGGN TCAAGAATTT 120  
GGGTGGGAGA AAAGAAAGTG GGTATCAAG GGTGATTGA AATTTCTGC AGCATTAAAG 180  
CTGGCGCTTA ATAAGAATAA GTAATAATAA AGAAATTCT AACATTCAAA 230

SEQ ID NO:7435

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08677

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAGCCCCGT GAAGGCAGAA ATGTATGTGA CTAGAACGAG GCCACATGAA 60  
TAAGCCACTG CCCACTGGCA GGAGTGAAAA CTGAAGCGCT CTTACCTGA AGGACCCCAA 120  
AACCATATAG AATAGAATAA CCAGGAGTTC AAA 153

SEQ ID NO:7436

LENGTH:138

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08678

SEQUENCE DESCRIPTION:

GATCTCACA GCNCTTTCCC TCTTGGTGCC TCAGTTTCCT GACCTATGAA ACAGAGAAAA 60  
TAAAAGCACT TATTTATTGT TGTTGGAGGC TGCAAANTGT TAGTAGATAT GAGGCATTG 120  
CAGCTGTGCC ATATTAAT 138

SEQ ID NO:7437

LENGTH:361

TYPE:nucleic acid

02104

TOPOLOGY:linear

CLONE:HUMGS08679

SEQUENCE DESCRIPTION:

GATCATGGCT AAAGATGACC TCTCTGGTGC TGACATCAAG GCAATCTGTA CAGAAGCTGG 60  
 TCTGATGGCC TTAAGAGAAC GTAGAATGAA AGTAACAAAT GAAGACTTCA AAAAATCTAA 120  
 AGAAAAATNTT CTTTATAAGA AACAGGAAGG CACCCCTGAG GGGCTGTATC TCTAATGANC 180  
 CATGGCTGTC ATCAGGAAAA TGGTTGGGAG ATTTCTCAAT CCCTGAAAAG ATGAGGTTGG 240  
 GGGAGTTGCC CAGAGGAATC CCTGTTCCCA CTGATTTTAA TTAGCAAAAC ATCCTGTGTC 300  
 TTTTGGAGTA CGNTGTGTAA GTGCCCATTG GGTGGCCTGT TNGGTCACCTG TGCAGCAGTT 360  
 N 361

SEQ ID NO:7438

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08680

SEQUENCE DESCRIPTION:

GATCAAAGTG TAAACACCAT AGGGACCCNT TCTACACAGA GCAGGACTGC ACAGCGTCCT 60  
 GTCCACACCC AGCTCAGCAT TTCCACACCA AGCAGCAACA GCAATNACG ACCACTGCTA 120  
 GATGTCTATT CTTGTTGGAG ACATGGGATG ATTATNNCT GTTCTATTG TGCTTAGTCC 180  
 AATTCCTGC ACATAGTAGG NACCNNGTTC AATTACTATT GNATGAATTA AGAATTGGTT 240  
 GCCATAAAAA TAAATNNGGT TCATTTAANG TNN 273

SEQ ID NO:7439

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08681

SEQUENCE DESCRIPTION:

GATCAGAGGA ATGTTATNTT GTTCAGCCTT CTGGTTGGTT CACAGTAGTG ATAGTATTGT 60  
 AAATACTCAG AGCAATCCTA CAAGAAGAAA ACTACATNAG CCCCCACATG TTCCCCCCTA 120  
 CATACCCCAT CACAGCAACT GAAAACAAGA GAAATGTTAG TTTTCTGTGG AAA 173

SEQ ID NO:7440

LENGTH:194

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08682

SEQUENCE DESCRIPTION:

GATCTCTTGA ACTCTGGGTT CTCCCAGCCC CTTGTCCTTC CTCCAGCTG AGCCCTGGCC 60  
 AACTGGGGC TGCCTTTCTC TNACTCTGTC TTCCCCAAGT AAGGGGGCTC TCTNAGTGCA 120  
 GGGTCTGATG CTGAGTCCCA CTTAGCTTGG GGTCAGAACC AAGGGGTTTA ATAAATAACC 180  
 CTTGAAAACT GAAA 194

SEQ ID NO:7441

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08683

SEQUENCE DESCRIPTION:

GATCANATGA AGAAAAGGAG AGGTAGATAC AGTCAGTGTG ACTTCAGGAA AGCTATTTAA 60  
AAAANCTTGA AATATAATTG AAAGAAGAAA CAACACCAAA NAAGCCTAAN CCTAGCCTCT 120  
GANCANCACT AN 132

SEQ ID NO:7442

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08684

SEQUENCE DESCRIPTION:

GATCAATCTG AGGAGACTTA ATAATGATAT TNATTCTCCC AATTCATGAA TATAGTATAC 60  
CCCTGTATTT ATTTGTNTTC TTGAATTTCT TTTATCATTG TTTGTAGTT TTCACCATGA 120  
CAGTCTTGCA CATATTTTGT TAAATGTACA GCTGAGAATT TAATTTTCC TGGTGTACAA 180  
TGCTAATAAA ATGGTGCTTT AAAAGAAA 208

SEQ ID NO:7443

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08685

SEQUENCE DESCRIPTION:

GATCCTCTAA GGTCTACAG TTTACTTCTT GTATTCTCCT TTGTAAGTCA TCTCCAAGAC 60  
GATGTCCAAA TCCATCACCA TTAATAATTA TAGTTTCCTC ACCCACAACA CTTAATATTT 120  
TAAAAAANGA TACTTTTCAT TGTATTATAA TTAATTGATA CATACATATT TGCTCTGTGA 180  
GTTCTTATT CATCATATTA GTGCCTGACA ATAAATGTGT GCTGGATTGA GCTGAATCTT 240  
TAAA 244

SEQ ID NO:7444

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08686

SEQUENCE DESCRIPTION:

GATCCTGCAA TTCCACTTAT AGGAATTGAC CCACAAGAAA TGAAAGCAGG GACTTGAACC 60  
CATATTTGTA CACCAATATT CATAGCAGCT TATTCACAAG ACCCAAAGG CAGAAGCAAC 120  
CCAAATGTTT ATCAATGANT GATTGATTGG CTAAGCAAAA TGTGATATGT NCCTAACGAA 180  
GTATCCTTCA GCCTGAAAGA GGAATGANGT ACTCATACAT GTTACAACAC GGACGAACCT 240  
TGANANCTTT ATGCTAAGTG AAATAAGCCA GACATCANCA GATAANTAGT TTATGNTTCC 300  
ACCTACATGN GGTACTGNGA GTN 323

SEQ ID NO:7445

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08687

SEQUENCE DESCRIPTION:

GATCCTCCTG CCTCATCCTC CCAAAATNCT GGGATTACAG GCATAAGCCA CCGTGCCTGG 60  
CCTCTTTAAT AATNTTNAAT ATACCCTAAA GGCTTGTGAA TATACAAGTC TACTGATAAA 120  
TTATGTATTG TCTGGGAATT TGATAGTNAT TGTTTATAGT AACTGGNTTT TACGCTGTGG 180  
TAGNCNGGCT GTGACACTAG TGTTGCACAG GTGTAATTGG TCATCCTATG CCTTCACCAG 240  
AATAACTTGG GAGTGGTGCC AGAANCTAGA GTCTACAATT CTCACTGTTT AGAGAGTGTT 300  
ANTGNCATAC TGTGTATN 318

SEQ ID NO:7446

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08688

SEQUENCE DESCRIPTION:

GATCAAGATA GTAGTATTAT TACACAAGAA ACTTGGTCTG CAGTCTGGAA GCTTGTCTGC 60  
TCTATAGAAA TGAAAATGCA GCATGAAGTT GACATTGTGG AAATGAAAGT AATTGGGTAT 120  
TAGAAATCTG AAAGTACTGT CATCTAANAG CAATTGTGAT TTTNTTGTAA TTGGTTGTCA 180  
CTGTTGTNCG GTGTCTAGNG TTANNGAATA CATGTNANCT TTCATGGTAT TTNGCCTTTC 240  
TTAANTTTTT TTAAAATTTA ANCTTTCTAA CCTATGTATT CAACTTCTGT ATTTATATNT 300  
NATCAGTGGT TCATGTN 317

SEQ ID NO:7447

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08689

SEQUENCE DESCRIPTION:

GATCATCAAA GAAAGACAGG GTGACCTGAG GATTATATGT TCAGCCAAGC TCCCCTCCAA 60  
GCATAAAGGC TACAGATAAC CATTTGTACA TATTCAGGAA CTGGAGTAAT GTGATTCCAA 120  
TGAGCCTGTC TTGAAGGAAC TCCTAGGGGA TTAACCTCAG CTAACCTGGG AAGTTATCTG 180  
GAGAAACCAC AACAGAAGGA CTGGTTGTAG TTCGAGGCTG TAGTCAGCTA TGATTGCACC 240  
ACTGCACTCT AGCCTGGATA ATAGAGCAAG ACTTTGTCTC CAAA 284

SEQ ID NO:7448

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08690

SEQUENCE DESCRIPTION:

GATCCCTAGT ATAACACATT CAGTGTTCCT CTTTCAGTCT TACTACTTTN ACCGCGATGA 60



TGTGGCTTTN AAGAACTTTG CCAAATACTT TCTTCACCAA TCTCATGAGG AGAGGGAACA 120  
TGCTGAGAAA CTGATGAAGC TGCAGANCCA ACGAGGTGGC CGANTCTNCC TTCAGGATAT 180  
CAGGAAACCA GACTGTGATG ACTGGGAGAG CGGGCTGANT GCAATGGANG TGTGCATTAC 240  
ATTTGAAAAA AANTGTGAAT CAGTCACTAC TGGANCTGCA CAANCTNGCC ACTGNCAAAA 300  
TTGACCCCN TTTGTNTGAC TTCN 324

SEQ ID NO:7449

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08691

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGGGGT TCGAGACCAG CCTGGCCAAC ACGGTGAANC CCATCTCTAC 60  
TAAAAATGCA AAAATTAGCC GGGCGTGGCG GCACATGCCT GTAATCCCAG CTACATGGGA 120  
GGCTGAGGTG GGAGAATTGC TTGAACCCAG GAGGCGGAGG CAGAGGCTNC AGTGACCCAA 180  
GATTGTGCCA CTGCACTCCA CCCTGGGCAA CAGAGCAAGA CCCCATCTCA AAAATAAATA 240  
ANTATATATA NAAAATAAAA NGCTATTTCT NGNNNNTTTC ACTATAAAGT TTTGCTTTAT 300  
TAAAAAGCTA NTANGCAGCT ATTN 324

SEQ ID NO:7450

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08692

SEQUENCE DESCRIPTION:

GATCTTAAAC TCAGTAAGCC ACTATCTGCA ATTTGTACA TTATATAGTA TTTGAAGAT 60  
ATGGAACCTT ATGAAAAAAA AATAGCAAT NAGTTCTTTT TCCCCAGAG GGGAAAGTTA 120  
TGTNCTGCAA ATAGTGTGTG TCTTATTTTA CTGTTGANCA GCAATNGCNN NTTATTTTTT 180  
NATTGCCTAG AACTTCAACA TGTGTATAG GAATCCTGTA GTGCCACTAG TTAATGCCG 240  
AATTCTCATC TGGATGTTAC CATCAAACAT CAGTACACTT GTCATTTAC ATGTGTTTAA 300  
TGTGACAGTT TTTCAGTACT GTNTNN 326

SEQ ID NO:7451

LENGTH:38

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08693

SEQUENCE DESCRIPTION:

GATCTNGTGG GCATAAATAA AGGTGTCATA AAGACAAA 38

SEQ ID NO:7452

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08694

## SEQUENCE DESCRIPTION:

GATCTTAAGA AGTGCTTTGA AGGGTTAAGA ATCAGGGGTC CAAGAGAGAC CCCAGTCCCT 60  
 CAATAAAGCC ACAAGAGCCC AAA 83

SEQ ID NO:7453

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08695

## SEQUENCE DESCRIPTION:

GATCTACACT CCAGGCCGGA AAGAGCAAGG GGAGCCCATG ACCCCTCGCC GCACGCCAGC 60  
 CCGCTTTGGT CTGTAAGCTG AGGCTGTCCC CAGAGAGGAT GGCAGCAGGT ATTGGGTCCT 120  
 CAGCCTTCTG GCGGGAGCCT GAGGCTGCGG ACAAAGCCCT TTAATCTAAG GACTTTAATC 180  
 TGTNCATATN ACGGCCCCC AGGGCAGTTC CTGCTGGACC AGACTCTNTG GCAGAGGAGG 240  
 TGGAGTTCTT CCATGCAGGA GCACGNCATG GCGGGAGCGG GGCTGCAGAG TATCCGNGGT 300  
 GCTGCCGNGG CACGGNGAGG TNGCTNGACC CATCGCATCT AAAANTAGGA N 351

SEQ ID NO:7454

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08696

## SEQUENCE DESCRIPTION:

GATCTAAGGT TTTAAAAGAA TTTGGTTTGA AAATATACAG TTGTCTTGAA GGAAA 55

SEQ ID NO:7455

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08697

## SEQUENCE DESCRIPTION:

GATCTGTTCT GTTTCACCAT GTAACACACA ATACATGCAT GCACTGTATT AGTGTTAGAA 60  
 A 61

SEQ ID NO:7456

LENGTH:273

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08698

## SEQUENCE DESCRIPTION:

GATCCCATTT TCCTCTGACG TCCACCTCCT ACCCATAGG AGTTAGAAGT TAGGGTTTAG 60  
 GCATCATTTT GAGAATGCTG ACACTTTTTC AGGGCTGTGA TTGAGTGAGG GCATGGGTAA 120  
 AAATATTTCT TTTAAAGAAG GATGAACAAT TATATTTATA TTTCAGGTTA TATCCAATAG 180  
 TAGAGTTGGC TTTNTTTTT TTTTGGNCCA NGGGGGGGGG TTTTTTCCC NTGCCCCCCT 240  
 GGGGTTTTTN NANTCCNGT NNAAAANAA ANN 273

SEQ ID NO:7457

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08699

SEQUENCE DESCRIPTION:

GATCTTAACC AGTCGAGTGG AGTGACATT GTCTGAATAC AGGNTGCACA ATGTTGTCAA 60  
TCCTGGAAAT GGTCTTTCTT TTTTGAAGA TATGTGAATG AAGTGTGGT GTCCTCACCA 120  
AGAGGTGGCA CTAAGGGTT CTGAGGAAAT AAATGTATAG ACCCTTATGT ACAGACCTGT 180  
GTATAACAA CTNTGTATA TACATATAGG ATAGCTTTT TGTACTATAC AGCTGGTACC 240  
ATAANAGTAG CTGGATANTT TGGTTAGGNC NGGTTGTCCA CCAGTTTGG NNTTTTTTTT 300  
CACITGTNTN CATTTTGGGG GATTTTCCTT GTGGTTGNN TAAAAANTG CATATGCTTA 360  
NGN 363

SEQ ID NO:7458

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08700

SEQUENCE DESCRIPTION:

GATCCGTATT TCCAATAAAA TCCCCTACCT GAATATTCAA GTTAAACATG TCCAGAATAC 60  
TACTGATT TATTGTTAAT AGCCACTATT CTGTTGTCTG GAATTAACAA CTGTATAACT 120  
AATTGTCATC CCTTTATCTT CTTAGTCAAT AAAACCTACA ATCCTCTTTC AAA 173

SEQ ID NO:7459

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08701

SEQUENCE DESCRIPTION:

GATCACCCCC CAACTTGCCC TTCAAGTTCT ACTTCAGTTT GATAAGGCTA TAAATGCAGC 60  
ACTGGCTCAG AGGGTCAGGA ACAGAGTCAA TTTCAGGGGC TCTCTAAATA CGTACAGATT 120  
CTGCGATAAT GTGTGGACTT TTGTACTGAA TGATGTTGAA TTCAGAGAGG TGACAGAACT 180  
TATTAAAGTG GATAAAGTGA AAATTGTAGC CTGTGATGGT AAAAATACTG GCTCCAATAC 240  
TACAGANTGG ATAGAAAANN TATGACTNNT TTACACCATC TTCCTGTTAT TCATTGCTTT 300  
TTGAAGAGNA GCATAGANGA GACTTTNTN TTTTATNCTN GGAATTTN 349

SEQ ID NO:7460

LENGTH:395

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08702

SEQUENCE DESCRIPTION:

GATCTGGAGT AAGGAATATT GTCATCACCT GGATTTTGAG AAAGAAAAAT AACTTCTCTG 60

CAAGATTTC TAATTGAGAG AATTCCTGAG TTGATAGCTC TAAAGGCAGA TATGCTGTAT 120  
 TTGCCTACTT TAACCCATTT TTCAACCTGT TTGTTTTTA ANNGGNTTCA CTAAGGGTTG 180  
 ATATGTACCA TTGTATGGG CAATTTAAG TCAGCTAAGG CAATAACCTT ATGCATGAGC 240  
 ATTTCCAGC CTTTCATGAA GCTGTTGAGG TCCTAGGCAA TTAATGCAGC AGTTGCGATA 300  
 AATAANGNC NTCTCACCTA AGNNTCCNTT TTCTCNATA ACCATGGTTC CTGGNCATGN 360  
 TTGGGAGGCT NCTCGGCTTT AGGNAANGG GGTTN 395

SEQ ID NO:7461

LENGTH:347

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08703

SEQUENCE DESCRIPTION:

GATCGCCTCC CAACAGCAGA TTTCGACATT ACCTGAGAGT CTTGATTTTA GGCTTGTTTT 60  
 TTGTAAACCC ATGTGTTTGT AGAGATTTTA GCGCTCTTCG GATATCTTCT CACCTATGTT 120  
 CCCTGGCTAA GAAGTCAGAG GTAGCCAATG TTTCCTTAAA TTCATTTTAA AACTTACCAT 180  
 TGGTGCATAT GTTCCAGATG GCAGATGCTG TCAATAATCT CACCATTGAT GACCTTTGTG 240  
 TATGTAGTTC TTGCATCCTA TACTGGATAA GCCTGTTTTA ACCTGCTATG ATGGGTGCTT 300  
 TCCATTGCTT CNTAATCTTC ATGGAGGGTT GCCATGCTTT TTGCCNN 347

SEQ ID NO:7462

LENGTH:274

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08704

SEQUENCE DESCRIPTION:

GATCGGNATG TAATAACAGC ATTAACCTAC AGACCTTGGA GCCTAAGCCA TACAGGAGAT 60  
 GGGAAACCAC GCTATGATAC TTNCTGGAAA CATTTTATAT TTNTAATGAT GGACATTTN 120  
 CTCGATTGGA GCATGCATAA TANCTTGTGG TACCTGTGTG GAATTCANC TTCTCATG 180  
 CAAAAGGATT TTNTATCCC GGCCTACTTG ANGAAGTGGT CAGCTAANGG NNTCCAGGTT 240  
 GTTGTTGGA CTGTAATACC NTTGATGAN AAGN 274

SEQ ID NO:7463

LENGTH:69

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08705

SEQUENCE DESCRIPTION:

GATCAGAAAC TTGCATATGC GTGAAAAAAG GAAGAGCAGC AGAAAATAAA TAAATGACAG 60  
 GAAAGCAAA 69

SEQ ID NO:7464

LENGTH:199

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08706

## SEQUENCE DESCRIPTION:

GATCTATAGC AATGTGATTT TATTTTAAAA AAGAAAAGCA GTGTGTTTTC TTTTTTGTGTT 60  
 GTTTTCTTTT GCTTAAGCAC TTCATCAATT GCTTTATTCT GTATCTGCGA AGTNATCTGC 120  
 AATCTCTNNT GNNCTTTNTA AAATTTGGAT NTGTTATAAA AATTGNCCAN ATTGGAAGGT 180  
 GTTTCAGTTA AAAAAANAN 199

SEQ ID NO:7465

LENGTH:320

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08707

## SEQUENCE DESCRIPTION:

GATCACAAC TTGGAGGGCT GTATGGTTTT TCATTTAAGA AAGTAATTGT CGTGCAATAA 60  
 AGTTATTAAG CTTGTTTAA GAATATTTTT ATTTTGTACA TCAAGTGGAG TTGGAATAG 120  
 TTGGTTTCAT AATGATATAT TTCAAAAGTA TCTTGAAGTC ATCTGGTTCA TTCACTACC 180  
 CAGGGCACAC ATTCCTCCTG TAACATCCCA AGTGGTTATT AAGCAAAACA GATTTATTTT 240  
 ATTTAGAAAA NNTAGTATG ACTGATTGTC TATTGATTTT GTACTTCTAT AAATNAATGT 300  
 GGATACATGC TATATTCAAA 320

SEQ ID NO:7466

LENGTH:311

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08708

## SEQUENCE DESCRIPTION:

GATCACTTAC AGGTGCCCTC TCCCCCAACA GCCAGAAAGG GAAAACAGAG CCGAGTTTGG 60  
 CCACTGGGGC CTCCACAGCC CTCTGGAAGA AGGGGCTGAC TGATAGGAAG GCACTCCTCT 120  
 GGTGTTCACT GGCCAGACCC CTGTGGGCTC AGAAGACTAC CTAGACCCCA TGAAGAAAGA 180  
 CTCTAGACAC ATTTTATAA TCAGAACTT ACAGTTTATT GTGAATAAAC CACTCAACTT 240  
 TGAGCAGATG ACATTGCCTC ANTAACTTT TTCGTTGAAG AAAACAAAAG ATATATGGTA 300  
 AATTCATGAA A 311

SEQ ID NO:7467

LENGTH:434

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08709

## SEQUENCE DESCRIPTION:

GATCATCAAC AAAGACTTGT TAGAAAGGTC TAGTCTTAGC ACTTGGCAGT TAATCTAGGG 60  
 AAGATGAATT AAATGGGTAG ATAGTGATGC ATACCTGTAT TCACTGATGT ATGTTTAAGG 120  
 GATTTGGGGG GGATACCTCA GTTCATGTGG AAGGGACAGT CTCGGTGTGT CCCATGAATA 180  
 ACCTTGGAAC TGCAACAAAT GGTTGTGCT CAGAAAAAGT CTTTCATGGT GACAGGAAGA 240  
 CAGTTTCCTT GGAGCTGGCC ATGAAGGCCT TAGAAGCCAT TTCTGGTGTC TGGTGGGTAG 300  
 CAGGCATAGA GATGATGTNC CGAGGTCCCA GTGAACACCA GTAGCCAAAN GAATTGTACT 360

ACCTTNTATC CATTANTTNG GGGGAAGGTCC TTCCCTNGGG NAACCAATGN CCTTTTTTGN 420  
TGGGCCAAAA TTTN 434

SEQ ID NO:7468

LENGTH:414

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08710

SEQUENCE DESCRIPTION:

GATCGAGCTG TGGACTTATA CCTGTGTGCN TGGTTTACAG GTCCAGTGGT TCTTCAGCCC 60  
ATGACAGATG AGAAGGGGCT ATATTGAAGG GCAAAGAGGA ACTGTTGTTT GAATTTTCCT 120  
GAGAGCCTGG CTTAGTGCTG GGCCTTCTCT TAAACCTCAT TACAATNAGG TTAGTACTTT 180  
TAGTCCCTGT TTTACAGGGG TTAGAATAGA CTGTTAAGGG GCAACTGAGA AAGAACAGAG 240  
AAGTGACAGC TAGGGGTTGA GAGGGGCCAG AAAACATGA NTGCAGGCAG ATTCGTGAA 300  
ATCTGCCACC ACTTTATANC CAGATGGTTC CTTTCACAAC CCTGGGTCAA AAAGAGAATA 360  
NTTTGGCCTA TNATGTTANA AGGAANGCAG GNNGGTGGGT TNAANTAAAA NTTN 414

SEQ ID NO:7469

LENGTH:214

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08711

SEQUENCE DESCRIPTION:

GATCAGTATT TTTAATCAAC ACCTGAGAAC TGTTACACCT TTNATTTTGT CTTNAGGAA 60  
ATCCCTGTCT TTCCATTTT TCATGTAAAT NTGCACAGT TACTTGTTC TATGTAAATA 120  
TTTTACTTTC AGAAATNAAG TTTTAATTG CTATTGTTT ATATAGGATT GAAAGAAAAT 180  
NAACTCCTT ATAAAAACA AATTATCTG TAAA 214

SEQ ID NO:7470

LENGTH:418

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08712

SEQUENCE DESCRIPTION:

GATCCATTTC CTCAGGACTC AGTTAGGTGT GCCCAGACGC ACTGACAAAA TNACGTGACT 60  
TCAGGGAAGC CTGGACACCC GAGGCACCTG GACCAGCTAT GGGTAGTTCT GTGGGTGGAA 120  
CACATTCTGT GTAAGAGCCC CACTGAGGCG TCTGCAGCGG AGTGACAGCA ACCCCAGAGA 180  
TGAGGCACCA GAGAGTGCCA CTGCATGAGA CACCTGTGAC CATTGGAAGT CTGAAATGCG 240  
GGGGGGGAGT TTCATTTTGA AGTGAAGACC AAAAGCCCTT TAAAAATAAT AGTTTTTTAT 300  
CATTTTATAG TAATCAGCGG NNTCTCTTT ACTAATATAC TCATTCCTNT TGCATATGAT 360  
TGGNCTTTTG GAGCTACATG CTCNACAAN NCTGTATCTT AATTGGTTAA CTTGTTAN 418

SEQ ID NO:7471

LENGTH:422

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08713

SEQUENCE DESCRIPTION:

GATCTTGGCG TTGTGGTAGA TTGCCTTCCT GTGCTCACCA ATTGTTTACA GGAAGAAAAA 60  
 CAATATATCT CACTTGGCTG CTGTGTTGAC TTGTTGCCTC TAGTAAAGTC ACTACTTAAA 120  
 AGCAAATTTN AAGAATATGT TATAGTTGGT TTAAACTGGC TTCAAGCAGT CATTAAAAGG 180  
 TGGTGGTCAG AACTATCATC CAAAACAGGA ATTATAAATG ATGGAAATAT TCAAATTTTA 240  
 AAACAACAAT TAAGTGGATT ATGGGTACAG GANAACCATC TTACTTTGGT TCCAGGATAT 300  
 ACTGGTAATN TAGCTANGGG TGTAGNTGCT TTTTTTCTT CCAGTTCNT TGNNGGATTT 360  
 CCTCTNCCTG NGGGGCATT TGGTTTTTCA ANACCNTCCC NTGGACCTGT TTTANTTTTC 420  
 CN 422

SEQ ID NO:7472

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08714

SEQUENCE DESCRIPTION:

GATCGCCTTA ACTACTGTAA ACATAGCCTA TTTTGTGCT TAANATACTG AATGGAAAAC 60  
 TCCATTGTGT GTTGCTGGAC TGTTTTGGAA ATATNNNGTT AAATGTGTGT TAATTGGCT 120  
 GTAATGGCAT TTAAAGCAAA CAAACAAACA AAAAAAGCTG TGAAATGGC CTTGGAGCAT 180  
 TATCTTTAGT TACTTGAAGA GTTCTAGTT TTTTAAAT ACAGTTTATG TAAAAATAAT 240  
 TTTANTTAAT TTAGAGANGC CAATCATTGT CTGNGGGGAA ACCGGCCTTN CNTTTGGGN 300  
 TTNCNTTTN GTGGGCCATT GGTGAGGTGA GTGCCTNTN CCCGTTTCNT TNGGTTTCN 359

SEQ ID NO:7473

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08715

SEQUENCE DESCRIPTION:

GATCTTTAAA GTTATTTTAA GGCACATTG TGACAAACAA CTACTTGATA TTGAAATCTC 60  
 CNTCAGCCAT TAGAAGCTAT CAAATAAAGT AGGTGTAAAA ACAA 105

SEQ ID NO:7474

LENGTH:104

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08716

SEQUENCE DESCRIPTION:

GATCAAGTAT GCTAATNTTA AGCAAATGTA AAAACTCATA AAACAGGTAA ACAGTGGGGT 60  
 GATTTCATTT GCCATAATTC ACATAAGACG AATTTTAATC TAAA 104

SEQ ID NO:7475

LENGTH:340

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08717

SEQUENCE DESCRIPTION:

```
GATCCTTGTT TTTAAGTTAC TTTCGATGTG TATACGAACA AAGACCAGGG AGAAACAGAA 60
CTTTTAAAC TATAGGCTGC TGTNTGGGG CCAGAAATAA GGTGACAAGT AAAGACTTTT 120
ATAATACCTA CCTTCAAANT TAGAATCAGC AGCACTGTAC AANTAAAGTG CCTGTGCTTC 180
ACCTCACACC AAGANTCTTG CCTAACCCCTG TCAGAGTGCC TAATATCCTG TGGTGATTAT 240
GTATAATGAA ACAGTCTTAT TTTGTGCTCT TTGGTTTCTT AAAAGGAAAG CTTGTTTTCT 300
TTCCTTTATC ATTACAGAGG TATGTCTTTG GTTCTTANTN 340
```

SEQ ID NO:7476

LENGTH:189

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08718

SEQUENCE DESCRIPTION:

```
GATCTGTGAA AAAATACAGT ATTGTAAATC CAAGACTCTG ATACTGAATT TAAGTTATTT 60
CACAGTTGTA GCTACACAGT AAGTAGCTTG GTAGATAGTT ATTGANTGTA TTTATGTAGT 120
GTATTAAGAA GCTTATATTA CTACAAAAA CTTATTTTAA TATATNTNNN TATNTNNGTN 180
TTATTTATN 189
```

SEQ ID NO:7477

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08719

SEQUENCE DESCRIPTION:

```
GATCTGTGTG ACAAATNAT TTCTTAGCTA TAATCAGCAC ATCACTTAGT TCAAACAAAA 60
TTCCCGAGCA AATGTTAGAT AGTAGGTATA TCAGTCACCT GGGGAGTTTT CTTCATAATA 120
TGCATATTCA TCTNGTAATG CATACATAGT TATCATCCTC CTTCTCAACC CATCTCCCTA 180
ACCCACATG CTTGCCAGTT CTTGAAGGGA TAAAGTGATT GTAATAGTGT TTNACTNCTC 240
TCTGTTCAT TTANTGTGAT ATAATTCTAG TNAANNNTA TTTNGGACAG TNGCTTAACC 300
ATGGTCATAA GAGGATTTGT ACTATAGATT ATCTCNGGG GN 342
```

SEQ ID NO:7478

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08720

SEQUENCE DESCRIPTION:

```
GATCTTTGTC AACCAAAACA TGTATTTTCA ATAAATTGAG ATTCCCAGTT CAAA 54
```

SEQ ID NO:7479

LENGTH:79



TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08721

SEQUENCE DESCRIPTION:

GATCTGTTTC CCTTCACAT TTTCCCCATT TTGTGAGCAT TTCCTTACTT CCTAACATGA 60  
CAAAATATTT CAAACTAAA 79

SEQ ID NO:7480

LENGTH:281

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08722

SEQUENCE DESCRIPTION:

GATCCCCCTG GCCTGGAGGC AGCAGCTGTA TAAACTCTAC GAGGCCGACT TTGTTCTCTT 60  
CGGCTACCCC AAGCCCGAAA ACCTCCTCCG AGACTGAAAG CTTTCGCGTT GCTTTTCTC 120  
GCGTGCCTGG AACCTGACGC ACGCGCACTC CAGTTTTTTT ATGACCTACG ATTTTGCAAT 180  
CTGGGCTTCT TGTTCACTCC ACTGCCCTCTA TCCATTGAGT ACTGTATCGA TATTGTTTTT 240  
TAAGATTAAT ATATTCAGG TATTTAATAC GAAATGTGAA A 281

SEQ ID NO:7481

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08723

SEQUENCE DESCRIPTION:

GATCTGAGTC CAGGCAGTGT TTTTAAGNGA TATGAGTTAG TAGTGAAAAT TGAAAAGGAT 60  
ATTTTACAAC CAAATACAGG TTTNNTGGTG TTTTTGAAA AATCCAAAGA TTTGGCAACT 120  
CGACCTAGGC TCCGACAAAA CCACAGTTGT TGGGAGCTGA GCCGGAGCCA GAACTCACAA 180  
TTCACCGTGG CCCGGCCACC CATCCCCACC ACTCCCGTGG GCTCCTGACC AAGCACCACG 240  
TGCCATTCAT CATGGCTTGC TTTTAGTGTT TTTGGTGTTT ATCTTAAAGT ACAGCGAAGA 300  
AGAAAGGGAA GTATTTNTTA GACCCN 326

SEQ ID NO:7482

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08724

SEQUENCE DESCRIPTION:

GATCTGGATT TGGTAAAGGT TGACTTAATT GAACTCTCTG AAAAATGCTG TAGTGACTTT 60  
AATTTGCACT CAGAATTAGA GCGCTCATTT TTGTCAGANC CATCATCTCC AGGAAGAACC 120  
AAGACTACTA AAGGATTCAA ACTTGGGAAG CACAAGCATG AGACCTTTAT AACGTCAAGT 180  
GGAAAATCTG ANTACATTGA NCCTGCCAAA AGAGCTCATG TTGTGCCACC ACCAAGAGGA 240  
AGGGGCAGGG GTGGNTTGG ACAGGGTATA CGACCTCATG ATATTTTNG TCAGNGNAAC 300  
CAGNNCACAN GTNGACCACC ATCTNTGCNT N 331

SEQ ID NO:7483

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08725

SEQUENCE DESCRIPTION:

GATCGGAGTC GCCAGGCAGT ATATCCAGTT AGAACTTCGG GGCTTTTGCA TTAGCTTGTC 60  
 TGATGCTCAT GCCCCACTCA GAGAAAAGAC ATCAGCAAAT TAAGAATTTT CTGGGTTTCCT 120  
 GTGACCCTCA GGTATTTTA AAGCAATTGG AAGAGCATAT GAACACGGGC CAGCTAGCAG 180  
 GATTTTCACA TCAAATTAGA AGTCTGATT TGANTAATAT CATCAATAAG AAGGAGTTG 240  
 GGATTTTGGC AAAGACCAAA TACTTTCAAA TGTGAAGAT GCATGCGATG AATACCAACA 300  
 ATATCACTGA GCTAGTGAAC TATTTGGCAA ATGACTTN 338

SEQ ID NO:7484

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08726

SEQUENCE DESCRIPTION:

GATCCGCCCT CCTTAGCCTC CCAATCCTCT CTAAAAAAG TGATAGCTCA GAAATATTTG 60  
 TAAAAGCAAG GTTTTATTTT CATTTTGGCT CTGTCATTTT CAGAGGCAAA GAAGTTGGCC 120  
 TGTAATAAG AGTGCTAGAG CTCCTACGCC CCTCCCCTTC TTCCCAACTT CCTACTTCCT 180  
 AGCCCTTTTA TCAACTCCTA GAATAGTTAA AGAGAGACAC ATCTAGATGG GATGAAAGGT 240  
 GCCCTAAGCA GGAGAACCTG ANCAAAAGGC TAGAGGCATG GGCCAGGTAA AATTGGGGC 300  
 CTAGAGTGAA GNCTGTGCTG TCGTTAAGNG CTTTCGAN 338

SEQ ID NO:7485

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08727

SEQUENCE DESCRIPTION:

GATCACAGTG ACAAAGAAGA TGAACAGCCT CAAGTGGTGG TTTTAAAAA GGGAGACCTG 60  
 TCAGTTGAAG AAGTCATGAA AATTAAAGCA GAAATAAAGG CTGCCAAAGC AGATGAAGAA 120  
 CCAACTCCAG CCGATGGAAG ANTCAATAT CGAAAACCAG TCAAGCATCC CTCAGATGAA 180  
 AANTATTCAG GTTTAACAGC AAGCTCAAAA AGAAGAAGC CAAATGAAGA TGAAGTAAAT 240  
 CAGGACTCGG TCAAAAAGAN CTCACAAAAN CAANTTAANA TTAGTAGCCT CCTTTCTTTT 300  
 GACAACGAGG ATGAAAATGA GTAAGTGTA TTTNTTTN 338

SEQ ID NO:7486

LENGTH:302

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08728

SEQUENCE DESCRIPTION:

GATCTTAATT CATATCTTGA AGATAAAGTC TACCTTACAG GGTATAACTT TACATTAGCA 60  
 GATATACTAT TGTACTATGG ACTTCATCGC TTTATAGTGA GTATTTGTAT AGTTACTGGC 120  
 TTTTTTCTG TAGTGTGAG AATGATTTT AAAACTTTGT CTGAATTTA AATCAGATTT 180  
 GCATTTTGG CTTATCAAAT AAAAATGAAA GGAATTCCTT TATACAAGGT GCCTTTTGTA 240  
 ACAAACCTGC ACGTTGTGAC ATGTACCCTA AAACCTAAAG TATAATANTA ATAANNTNA 300  
 AA 302

SEQ ID NO:7487

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08729

SEQUENCE DESCRIPTION:

GATCAAAAGT GAATAATGTA TGAATGAGAG CTGTAAGAAG GATTTTNATT TTGTTATAAT 60  
 TTAGTTACCA TTTTCAGTGT TATTTCAAAG GTTCTTTGAA GAATTTTGGG GCAGGGCATC 120  
 AGATTAGAGT TTTAAAATTT GAGTATTTTG GATATCAGTG TTCCTCATGA AGATATACAT 180  
 GGATATNCAA TTTTGATGGC TTCCAGATTT GTAAGATTTT ATGTTGTATA TACCATTCTA 240  
 TTAAGAAACA TGCCACTGT GCTTTCAAAC ATAGATAAAG CATGATAAAG ATTATNATTT 300  
 AAGATATACT TGTATTTATA CCTCAGATAT TCTN 334

SEQ ID NO:7488

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08730

SEQUENCE DESCRIPTION:

GATCAGCTGG ATACTCNTGT NACCAGAATT CCAAAGGTTC TGATAGAATC AAAGATGGAT 60  
 ACAAAGTGAA CTCACACATA GCTAAGCTGC AAGAGTTATG GAAAACTCCC CAAAATCAAA 120  
 CAATCCACCT CTCTAANTCA NTGATGGAGG CGTCCTTTT CAAGCATCCA GACCTACCA 180  
 CAGGCCAGAN GCGTTACCNG TGCAGCATTG CTAAANTCTA TAATGCAAAC TATCTGANGA 240  
 TGTTAATGNA GNGGCAGTAC ATGCACGTNC TTCAGCACAG CTCACAAAAG CCAGGTGTCC 300  
 TCACTCATCA CAGNNGCCGC CTTNGCTCCC GTTTATN 337

SEQ ID NO:7489

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08731

SEQUENCE DESCRIPTION:

GATCATTGAG AACACTGNAC ACAGCAGCTT CAGGCAAAGG GAAAAGAACT AAATGAATTC 60  
 CGGAAAAAGC ACAACATTCTG TCTCATGGGA GAAGATGAGA AGCCAGCAGC CAAGGAAAAC 120  
 TCAGAAGGGG CTGGGGCTAA GGCCAGCTCA GCTGGAGTGT TGGTCTCCTA GGGACCAAGG 180  
 CCTTTGCATT TTTTCTACC CTGACTCCCA CTTCTAATTT CTCTTTATTG TTATTATTAT 240  
 TATTTTCTCT GCTATTGTAA TATTTTTTTG TTAATTAAAT GTTTTGGTTA AA 292

SEQ ID NO:7490

LENGTH:140

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08732

SEQUENCE DESCRIPTION:

GATCAACTGC AAACAGGCAC GAAGGAAGTT TTTGGGTGA TGAAAAATAA AACTTTGGAT 60  
GTCGAACATA TTTTGAAACT AGATTGCAAT NATAGTTGCA TAACTNTATA CATTTATTAA 120  
AATCGTGGA CACTTACAAA 140

SEQ ID NO:7491

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08733

SEQUENCE DESCRIPTION:

GATCCGGTCT CCCCCGCCCC CCGGCTGCAG GGTGGATAAA GAGGAAGATG TGAAGAGGAG 60  
GCAGACAAAA GCAAAAGGAC ATCCTGTGAG TAGGAAACGG CCGAATTACA ATTCAGATGT 120  
GCAATGTTTG CATAAGTAAA CTGACACGGG ACTATTATAT GCAGAANTCC ACGTGCAAAA 180  
NTTTTCAGAC ACACCTTTGT ACCTCTNCCT AATCCTGCCC TGGTAAAATG GCGGTTATCA 240  
GTGCAAGTTT GAGGATACAT ACAGCTGGAA ANTGGNCATC ACCAAACTGG ACTCCAGAAA 300  
GTNCTGTCTA GGATTTTATT AGACTGCTTT TTTNCAN 337

SEQ ID NO:7492

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08734

SEQUENCE DESCRIPTION:

GATCTATTTT TCAGTAATNA GTGTGTGCCT CATGCCTGTT TCAATATTGG GTTTTGGAGA 60  
CANTATTGTA CCAGGCCTGT TGATTGCATA CTGTAGAAGA TTTGATGTTT AGACTGGTTC 120  
TCCTTACATA TACTATGTTT CGTCTACAGT TGCCTATGCT ATTGGCATGA TACTTACATT 180  
TNTNGTCCTG GTGCTGATGA AAAAGGGGCA ACCTGCTCTC CTCTATTTAG TACCTTGAC 240  
ACTTATTACT GCCTCANTTG TTGCCTGGAG ACGTAAGGAA ATGNAAAAGT TCTGGAAAGG 300  
TAACAGCTAT CAGATGATGG ACCATTTGGN TTGTCAN 337

SEQ ID NO:7493

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08735

SEQUENCE DESCRIPTION:

GATCGGCCTG CGAAAGGATA CTGTGAAATN ACTAATTAAC TAATAAACCT GTCTCAAGTT 60  
GAGGATTGA AGAAA 75

SEQ ID NO:7494

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08736

SEQUENCE DESCRIPTION:

```
GATCTGGGGT ACTTGGCAGG GCTTCCCTCA GACAATACCT TAGAGAGTCA CAACCATTCC 60
AGGGTCTGGT CTACCTCACA TCCTCATTCA TTGTTGGATG TGCTTAGCAT AGCCAGAGGT 120
GTCTTCTCTT TGACAGACTT GCTATCTGAA AAATAAACCA GGACACCAAT TTTTTCAGCAT 180
ATAATAGAGG ACATCCCTTC CCAGCTATAG GAATGCTTGG TATCCTTCCA AGAACTCCTC 240
CTTTAGAGGA GCCTCACAGA AGTTGCTGGG TAAACATGGG CTCAAACCAA GGAAAGTCAG 300
GTAACCTGGG TGGNGGTTAT CCCACCACCA ATGGCAGGGG GTN 343
```

SEQ ID NO:7495

LENGTH:95

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08737

SEQUENCE DESCRIPTION:

```
GATCAATATT GTAAAGAATT TATTCTGATA AATNAGAAAC TGGATATAAT GTCAAAATAG 60
CTATTTTCTC AATAAAAATC TCAAATCTCC TGAAA 95
```

SEQ ID NO:7496

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08738

SEQUENCE DESCRIPTION:

```
GATCCTCCCT CCTTGGCCCC CCAGTGTGG GATTACAGGC ATGAGCCACC GTGCTTGGCC 60
TGGAATNAAT TTTTATTGTA AGTTATTCTG TATCTCCAGT GTTGGCATAT GCTAGACATT 120
CAATGAATAT TTGTTGATT AAA 143
```

SEQ ID NO:7497

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08739

SEQUENCE DESCRIPTION:

```
GATCAACAAA ATGTGGTATA TTCATACAGT GGAATATTAT TCAGCCTCTA AAAGGAAGAT 60
ACGCTGACAT GTGCTGCAAC ATGGATGANT CTTGAGGACA TGATGCTAAG TGAAGTAAGC 120
CAGTCACTGG AAGACAAATA CTCTATGCTT CCNTTATGT GAAGTATCTA GAGCAGTCAA 180
ATGCATAGAA ACAAGTAGAA TGGTAGTTGC CAAGGACTGG GGGAGGAGGA AATGAGGAGT 240
TGTTTAATGG GTATAGTGTT TCATTTTTCG NAGATAAAAA GTCCTGTGGN TTGGTTGCAC 300
AGTTAAGTTA TGTGANTGCT GTATGCCCAA CTCANCTGTT NN 342
```

SEQ ID NO:7498

LENGTH:236

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08740

SEQUENCE DESCRIPTION:

GATCCAGTCG GCCTGGAGAT TCTACGCCAC CAACCTCTCG CGCACAGACC TGCCTCCAC 60  
GTGGCAGTAC TACGAGCGAA CGGTCACCGT GCCCATGTAC AGGTACCGCC GCCGGGCACC 120  
TGCCACCAAG CAACTGTTTC ATTTTATT TTCCATTTGT TCTTAAACCC CACTTTTGT 180  
TGTTTATTAT TTTGATTGAT TTTNNNTTCT TTTAAATGTA TTTTCACAA AGGAAA 236

SEQ ID NO:7499

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08741

SEQUENCE DESCRIPTION:

GATCCTAACC CTTTAGTATG CTGGAATTCT ACTCTTCACT TACTGCATTG ACTGTTGTTG 60  
ATTAGTTATN ATTGCAAAGC ACTGTCACCG GCCTCAGGGA GTTTATGTGT AATAGAATTA 120  
AAAATAATAG CTGTGTATAA CACTTAGCTC AAGCCACAAA 160

SEQ ID NO:7500

LENGTH:210

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08742

SEQUENCE DESCRIPTION:

GATCTTATTG TGGAGTTAAA CAAAGCACCC TTAAAGTAGC AAGCGAGCAA AATAAAAGCA 60  
AGGAAAATCA GTTGAACAT AACTTATGTA TTTTATAGGA TTAAGAGTAA TTAACTGAG 120  
TCAATTCAAT ATGTTTTTAA AGGTGTGATT CTAAATNCT TTATGATTGT TTAGATTCT 180  
ATATCTTGGT AACATGAATA CACACTTAAA 210

SEQ ID NO:7501

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08743

SEQUENCE DESCRIPTION:

GATCAGCATT TGTATTTNAG TCCATTAATG GGAAAAATAG CTGATATTGT NCATAGGAAC 60  
TTGGAAACCA CACAGGACTT AAGTCCCTTG TCTGTNTTGA TGGTCAACAT ATCTCCTTTA 120  
ATATCAGGAC ATTTTCAACA ACANCTGGTG AACAAAACAG ANCTNCTTTT TGACACCATA 180  
GATTCTCTG AGGTCAACGT TGCAAAANGC ATAGCAAAGT TNCTCCGAAA TGTTAGATAT 240  
CGTTATCAAC CACTATTAGA CAGATGTAAT ACCGTATTTT TTCAGTAATG TGGNCCACCT 300  
TGATTTTGGN TTCCATCAGT ANAGNGACTT AGTGTATACA NNNACNAAAN N 351

SEQ ID NO:7502

LENGTH:195

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08744

SEQUENCE DESCRIPTION:

GATCGCACCA CTNCACTCCA GCCTAGGTGA CAGAGGGGAT GACAGAGGGT GCTCTGCGNN 60  
CAGGGAAGGC GGGGTGGTTG GGGGGTAGAG AATGTTGCNC TNATAACCAC AGCTGTGGTT 120  
ATTTTNTGGC AGGTACAGGT NAGGTTCCCT CTCCTTTCCA CCAGATGGCA CTGGAGAAAA 180  
GGGATTTNAN TTAAN 195

SEQ ID NO:7503

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08745

SEQUENCE DESCRIPTION:

GATCAGAGCA GAAATAAGTG AAATAGAGAC TAAAAAATAG AAAACATCAA TGAAACAAAG 60  
AATTATTTT TAAAAAGATA AACTAAATTG ACAACCTTT AGCTAGACAA AGAAAAAAGA 120  
GATAAGACAC AGATAANTAA NTTCAGAGAT TAANAAGAAG CCATTATACC TGATACCACA 180  
GAANTACAGA GANTCATAAG AGACANTTAT GTTGTGCACA TGTACCCTAG ANCTTAAAGT 240  
ATAATANNCN NTANTTN 257

SEQ ID NO:7504

LENGTH:328

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08746

SEQUENCE DESCRIPTION:

GATCTTACAG AGAAAGACTA TGAAATACTT TTCAAATCTA TTAATGGAAT CCTTTNCCCT 60  
GGAGGAAGTG TTGACCTCAN ACGCTCAGAT TATGCTAAAG TGGCCAAAAT ATTTNATAAC 120  
TTGTCCATAC AGAGTTTGA TGATGGAGAC TATTTNCCTG TGTGGGGCAC ATGCCTTGA 180  
TTTGAAGAGC TTCTACTGCT GATTAGTGGA GAGTGCTTAT NAATTGCCAC AGATACTGTT 240  
GACGTGGCAA TGCCGCTGAN CTTCACTGGA GGTCAATTGC ACAGCAGAAT GTNCCAGANT 300  
TTCCCTACTG AGTTGTTGCT GTCATTAN 328

SEQ ID NO:7505

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08747

SEQUENCE DESCRIPTION:

GATCAATTG AAGTCCCTGT TTGGGAATAA GGCACCTATC AGCATGAAGA ATTTTCTC 60  
ATTCTGTGCC ATTTTAAAAA TAGAATACAT TTGTATATTA AA 102

SEQ ID NO:7506

LENGTH:343

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08748

SEQUENCE DESCRIPTION:

```
GATCACCTTC GNACGACTAC ATCGCCTGCT GCGTCAAAC T GAGGGCTCTT ACAGNCAGTT 60
TTCGAAGNCG GGGTACTGCT CAGCAAGGTG TTGTGAATTT CCCATATGAT GATTTCATTC 120
AATGTGTCAT GAGTGTTTAA ATCAAGAGGA AGCTGCATGA ATGTAATCAA CATTCCAACT 180
GGAGCTCTCC TTTGCTTGTC CTCTTTGCCT TCGGTAATAT GTATAAACTT ACATCACGAC 240
TTTCTCTTAA CAGCTGTTGT AAAGTTTATT ACTTTATGTA CAACTGAAGT TTTGTTTATG 300
TTTTGATAAT AAAATTCTTT GGAAC TTAA AAAAAAAAAA NGN 343
```

SEQ ID NO:7507

LENGTH:342

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08749

SEQUENCE DESCRIPTION:

```
GATCCAAGTG CTTNTTTGGT ACCAAGAGAC CCGGNTCTNT GCCAGCATAA ACCACTCACA 60
CCCCAGGGGG ATGAGCTCTC TNAGCCCAGG ATTCTGGCAA GGGAGGTGAA GAAAGTGGAT 120
GCGCAGAGTT CGGCTGGGGA AGAGGACGTG CTCCTGAGCA AAAGCCCATC CTCACTCAGC 180
GCTAACATCA TCAGCAGCCC GAAAGGTTCT CCTTCTTCAT CAAGAAAAAG TGGANCCNGC 240
TGTCCTTCCA GCAAAAACAG CAGCCCTNAA TAGCAGNCCN CGGTCTTTGG GGAGGNGCAA 300
AGGNAGGCTC CGGTTGCCCC AGATTGGCAG CANNATTATN AN 342
```

SEQ ID NO:7508

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08750

SEQUENCE DESCRIPTION:

```
GATCAAGCAA TTAATCTTCT GTAGAACCAA AATTNACTGT AATAACTTGG AGCAGTACTT 60
TATACAACAA GGAGGAGGAC CTGATAAAAA AGGACACCAG TNCTCATGTG TTTGTNTTCA 120
TGGTGACAGA AAGCCTCATG AGAGAAAGCA AAAGTTGGAA AGATTTAAGA NAGGNGATGT 180
AAGATTCTNG ATTTGCACAG ATGTAGCTGC TAGAGGNATT GATATCCACG GTGTTCTCTA 240
TGTNATANNT GTCACCTCTG CCGATGAAAA GCAAACTNC GTACATCGAA TTGGCAGAGT 300
AGGGTGGAGC TGANGGATGG GTCTGGCAAT TNCCCTNGTG GCACCGAAAN NGGACAGGGT 360
TTNGTACCN 369
```

SEQ ID NO:7509

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08751



## SEQUENCE DESCRIPTION:

GATCTGGCCA GAGGGGTGTT GGAGCCCAGC CCACCCACAT ACCAGTCAAG CTCTTAGGGG 60  
 AGCAGAAGAA AAGCAGGAAG AATTTAAATG TTAAATTTT TTTNAAATT GACTTTNCTA 120  
 GTTATTAATAA GTTGCTTGTT TCAGCAGTGN TATTGTATAA NGACCATCTT GTAAGNTACT 180  
 CCTGACATCT TGCTTTAGCA CATGTACAGT ACAGTTNCTN TGATAATGTG TTGCCCTAA 240  
 CTNCCCTGGC TTCNCCTCA GCCCATCCNC TCTCCTCTAG NGCAGTTGGG TTGGAGGCTC 300  
 NTTGAGGCAA GCNGCANCAT TGGNGGGGGT GCAGN 335

SEQ ID NO:7510

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08752

## SEQUENCE DESCRIPTION:

GATCCGACAC AGAAGACAGG AGGAACTNAG GCGACAGCAA GAGGGCTTTA AGCCAAACTA 60  
 CATGGAAAT AGAAGACAGG AAATNAGAAT GGGTGATATG GGTCCCCGTG GAGCAATAAA 120  
 CATGGGAGAT GCGTTTAGCC CAGNCCCTGC TGGTAACCAA GGTCTCCTC CAATGATGGG 180  
 TATGANTATG AACANCAGNG CAACTNTACC TGGTCCACCA ATGGGTACTG GTNCTGCCAT 240  
 GGGACCAGNA AGGNGCCGCA ANTNTNGGGN 270

SEQ ID NO:7511

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08753

## SEQUENCE DESCRIPTION:

GATCCCAGGA GAATCAGAAA CTCCAACATT TTGGAATCTT CAAGGGCACA TACTGAGAAA 60  
 AAAAAATAAAA TTGTTTATGA GCAA 85

SEQ ID NO:7512

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08754

## SEQUENCE DESCRIPTION:

GATCAAACTA TACGCTGTCT ACAAGAGACA CTTTAGATT AAAGACACAA ATAGGTTGAA 60  
 AGTAAA 66

SEQ ID NO:7513

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08755

## SEQUENCE DESCRIPTION:

GATCTTTTGT ACTGAGGTTT TTAACACTTT ACTTGGGTTT ACCAAGCCTC AACTGGACAG 60

ACCATAAACA GTCCACAGGC ACCGTTCTCTG CCAGGCCCCA ACCCACAGGG AGTCTNTCCG 120  
 CAGAGCCTTC TTGGTGTTGC CCTAACTTGC CAGTGGCCTT TGCTCAGAGC CTCCTCCTGT 180  
 GACATGTGAA CAATGAAGAG GCCTGCGCCT CCTGCCTTGC CGCCTGCAAA GCAAAGAAAC 240  
 TGCCTTTNAT TTTTAACTT TAAAAAGTAG CCAGATTAGT ANCANGACTG GCTGGCTTGA 300  
 TGAGCAAAGC CTTTGCTCTC ACGGNAGGAG GGTAGGGTTT NGGNTGTACA ATGGTAACTT 360  
 GCNNTGGGNA CCTTAAAAAG GGAGGTGNAN 390

SEQ ID NO:7514

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08756

SEQUENCE DESCRIPTION:

GATCACCTGA GGTGAGAGT TTGAGACCAA CCTGACCAAC ATGGAGAAAC CCCGTCAC TA 60  
 CTAAAAATAC AAAATTAGCT GGGCGTGGTG GCACATGCCT GTAATCCAC TACTTGTGA 120  
 GGCTGAGGCA GGAGAATCAC TCGAACTCAG GAGGCGGAGG TTGNAGTGAG CCACTGCACT 180  
 GCCTGGGCAA CAGAGCGAGA CTCCATTCA AA 212

SEQ ID NO:7515

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08757

SEQUENCE DESCRIPTION:

GATCCACCCG NCTTGNGCCC CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGTGCCCC 60  
 GCGGAGTTAA ATATATTCT AACATAGTAA AAAAAAAG GTANGTTNCA TTAAATAAAT 120  
 CCNGGAAGTN CAAATN 136

SEQ ID NO:7516

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08758

SEQUENCE DESCRIPTION:

GATCATGAAG ATGGACAGAA CAGACACTGT GGCAATAAGA TACCAAATTG TAAACAGGAC 60  
 CTAAGGCCAT GCCAAGCAAG GGTAAAGTCA TGTAAGAGCC GCCTTCATGC CCCGCCTCCC 120  
 CTGCCCCCAA CTTATGAATA AACTATGTTT TAACTGCAAA 160

SEQ ID NO:7517

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08759

SEQUENCE DESCRIPTION:

GATCTGGAAC TTGAAGATGC CATTCATACA GCCATCTTAA CCCTAAAGGA AAGCTTTGAA 60

GGGCAAATGA CAGAGGATAA CATAGAAGTT GGAATCTGCA ATGAAGCTGG ATTTAGGAGG 120  
 CTTACTCCAA CTGAAGTTAA GGATTACTTG GCTGCCATAG CATAACAATG AAGTGACTGA 180  
 AAAATCCAGA ATTTAGATA ATCTATCTAC TTAANCATGT TTAAAGTATG TTTTGTTTTG 240  
 CAGACTTTTT GCATACTTAT TTCTACATGG TTAAATCGA CTGTTTTTTA AAATGNCACT 300  
 TATANNTCCN AATAANCTGT TAANCCNGGN ANANGGNNTT GTNTTNGTGN GGNTN 355

SEQ ID NO:7518

LENGTH:77

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08760

SEQUENCE DESCRIPTION:

GATCTTCATT TTCCTGTTCT GTATTCTGCT ATGAAGTTCT CTGTTTTTCA AATAAAATTT 60  
 ATGTGTAA TAACAAA 77

SEQ ID NO:7519

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08761

SEQUENCE DESCRIPTION:

GATCATCTTG GAACTGCAAA 20

SEQ ID NO:7520

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08762

SEQUENCE DESCRIPTION:

GATCGGAGGC TGCAGTGTGA CAGTGCCAGC CAATGTGCAG AGGTGGATGA GGTCTTGTTNA 60  
 AAACCTGGCT CCTTTTAAAC CGGCCCTCAA GTCCTTAAG TNAATTGCCG TAACTAATTT 120  
 TAAAGGGTTT AGATTTTAAAG AATGGTGCTC TTTCATGCCT ATNATCAGTA AGGGGACTTG 180  
 TATTAGAGTC AGAGTCTTTT TATTTAGGCC AGTTGTCAAG TGTCAATAAA AGCATCATGT 240  
 AATTAAA 247

SEQ ID NO:7521

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08763

SEQUENCE DESCRIPTION:

GATCTTAATA TTGACTAGTT TCACATCCAG GTTCTAAGA AATGATAAGA TACTTCACTT 60  
 TTCCAGAGTG AAATGTAGGA GGGAGCACAT TCTAAGTACA GCTAAAAATT TAGCTCACTG 120  
 TAACACAGTT TCACTCTCTG AATAAATAAA GCAAAAAACA CAAA 164

2153480

SEQ ID NO:7522

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08764

SEQUENCE DESCRIPTION:

GATCTGCCTG CGAAGCTCCC CACAACACTG TCCCTGGAGA CCACCCATGT GGCAGACACT 60  
CAAAATCTGT TGTATTGCT AAATAAATTA ATATGGACAA GTTACCCAAA 110

SEQ ID NO:7523

LENGTH:181

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08765

SEQUENCE DESCRIPTION:

GATCAAATTG TTCATGCCTT GGGATTTTTT CTTCTATAAT TTGGATATCT TTNTCCATTG 60  
CTCATTTCTT TATTGAAGTT GCTTTCTTAA AAATTGATT AACTTTGTCC TTGGTATCTT 120  
TAGTTCAGTC CAGAAATNAT TAATTGTGAT GTGATTAAAT TCATTTTTTG GTCTGGTGAA 180  
A 181

SEQ ID NO:7524

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08766

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GGGGCTTTCC CCCTNCTTCG CTCTGCACTT CTCCTTGCTG 60  
CCATGCCANG AAGGATGTGT TTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCC 120  
TCCCCAGCCA TGTTAAACTT TGAGTTAATT AAACCTCTTT CCTTTATAAA TTAAA 175

SEQ ID NO:7525

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08768

SEQUENCE DESCRIPTION:

GATCTGAAAA ATNCTTTTTG TCCTCATTGT TGCAGTTTCA ATTGTAATCC ATTGCATCTN 60  
ATTTTCTTGG GTGTTGGCAC TGTAATATAT TAAAAAATAA TTCAGTGCTC AGTATTGTAA 120  
CAACTGTCCC TACTGAATAT TCCTTTTCAT AAATACTTGC TACCACAGGG AAATTAAGTT 180  
TTCATATAGA ATAAGTAGTT TCAGTAGTAA CCATTGAAGA NTAANCNTG TGGTTCANGG 240  
CAGATATTTT TCTGGAAAGT TTTCTCTATT GTANAATTTG TNGTATATGG CTATGCTGAC 300  
TATCNTGGAT NCTGTCATGG GACATGCATT ACCACANNTN CNNGCCCCCT TCTGTGGTNN 360  
NN 362

SEQ ID NO:7526

02127

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08769

SEQUENCE DESCRIPTION:

GATCCCATGG ACATTGGGG AAAGGGCTCC TTGGGCTGCT GGTGAACTTC TGTGGCCACC 60  
ACCTCCTGCT CCTGACCTCC CTGGGAGGGT GCTATCAGTT CTGTCCTGGC CCTTTCAGTT 120  
TTATAAGTTG GTTTCAGCC CCCAGTGTCC TGACTTCTGT NTGCCACATG AGGAGGGAGG 180  
CCCTGCCTGT GTGGGAGGGT GGTACTGTG GGTGGAATAG TGGAGGCCTT CAACTGATTA 240  
GACAAGGCC GNCCACATCT TGGAGGGCAT CTGCCTTACT GATTAAATG TCAATGTGAA 300  
TCTAAA 306

SEQ ID NO:7527

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08770

SEQUENCE DESCRIPTION:

GATCTTTTAG TTATCAAACT GTTAAATACA TTTAACTTT CAAATTTTAT GAATAAAGGA 60  
GATGAATCCT GTTAAA 76

SEQ ID NO:7528

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08771

SEQUENCE DESCRIPTION:

GATCTGAAGT CTGATTGTGT GTACGTTGCG GCGTGCGTTA GTCCCTGCCA CGATTAAAGA 60  
CTTAGACCGN CAAA 74

SEQ ID NO:7529

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08772

SEQUENCE DESCRIPTION:

GATCGCGCCA CTGACTCCA GTCTGGTGAT AGAGCAAGAC TCCATCTCAA AAATAAAAAA 60  
TAAATGTTG GNTGTGGGGA GCCAGGCCTC TCACAACTGA AA 102

SEQ ID NO:7530

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08773

SEQUENCE DESCRIPTION:

GATCGAATCC AGGCCCTGGG GCTTCANTTG CCAGACCCAC CATTAGAGAG TGAAGATGAA 60  
 GATGAGGAGG GAGCTACAGC GTTGAACAAC CACAGCTCTA TTCCCATGGA CCCAGAACAT 120  
 GTAGAGCTGG TGAAGAGGAC AATGGCTGGN GTAAGCCTGC CTGCGCCAGG GGTTCCTGCC 180  
 TGGGCTCGGG AGATATCGGA TGCCCACTGG GAAGATGTGG TACAGAAAGC CCTCCAAGCC 240  
 CGGCAGGCAT CCCCTGCCTG GGAGTGACCA CAGTGAGAGC TGCCTTATAT TCCTACATTC 300  
 CAGGCCAGAA CN 312

SEQ ID NO:7531

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08774

SEQUENCE DESCRIPTION:

GATCTGGA CTGAGACCTG CTA CTCTCCCA AGCCAGAGCC CATCAGCCAG GCCTGCTGTG 60  
 AGCCACCTGC CTGTGGAGTG CTGAGCTCAA CCAAAGGCTG GCAAGCTCTG GGCCTCATTT 120  
 AAGGGATTCT GATGAGCCGA TGGGCCCTGG AGGCAGCCCA TTAAGCATC TGGCTCGTTT 180  
 TTGAAA 186

SEQ ID NO:7532

LENGTH:390

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08775

SEQUENCE DESCRIPTION:

GATCACATTG CCATTCTCTC CCTCCAGAGG TAACAATTAT CCACAATTG ATGTTTATCA 60  
 TTCCTGTGTT GTTGTACTTT CACTGTGTAT AACCTAANNC NTCTACTNTT TAGTACTGTT 120  
 TTATATATTT TNAAGCCTCA TACTTGCTCA TTCTACAGCT TTTTCTACTC ATTATTGTAT 180  
 AATTATATCT GANGCNCTCG TTCATTAATT TTAGTCCNGT GTAGCAGAAT TCAATTACGG 240  
 GAACTACCAT AATTATCTG TNCTCCAGTT GAAGGCATGA NGTTGTTGCC AGTTTCTGTA 300  
 TTATAACCAC TGTAAGTGGGA CCATTCTTCT GCNTTGGGCT CACTGCGGGT TACCNAAGNC 360  
 GGTNCCNCAG GATAANCCCC ATTTGGGNTN 390

SEQ ID NO:7533

LENGTH:378

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08777

SEQUENCE DESCRIPTION:

GATCTAGCAT GTGGATTTTA AAAGATTTGC CCTCATTAAC AAGAATAACA TTAAAGGAG 60  
 ATTGTTTCAA AATATTTTNN CAAATTGAGA TAAGGACAGA AAGATTGAGA AACATTGTAT 120  
 ATTTNNCAAA ANCAAGATGT TTGTAGCTGT TTCAGAGAGA GTACGGTATA TTTTGGTAA 180  
 TTTTNTCCAC TAGCAAATCT NGATTNGTT TGATAGTGTG TGGAATTTNC TTTTGAGGGA 240  
 TAAGACCATG GGANANTGT GTTAAAGACT GTTTGTNCCC TTCATGANTN CTTCTGAAGT 300  
 TGCCNTCACT TTTNCTAATC TCCTGTGAAA TGCCTAGGTT TTGCGCCTGT CCCACTTTTT 360  
 NTTTGTGGGN CTTATNTN 378

SEQ ID NO:7534

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08778

SEQUENCE DESCRIPTION:

GATCATTGA GTGAAAAA GGTACCTGTN CAAGCAAGCT CCTGGACACC ACAAGAAGGA 60  
GGAATTATTT TAAAAGCTGT ACTCTAAAT TGTNAGTATC TTTAAATCA GTTGTGAACA 120  
ATGAAGGATT TGAAAGAGCA TTGACTTTGC CACTTAAAAG TATTCTAAA ATAAA 175

SEQ ID NO:7535

LENGTH:159

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08779

SEQUENCE DESCRIPTION:

GATCAAGGTG AATTTTTTGT ATCACTGCCT GTGGAAATCT ATCCTCATCA GTNATTGCAT 60  
TTTTCCCTGC CTATACCTGT GCTCCTTTT NTNACTGTGT TTTCAGTCAC TTCCTTTCTG 120  
TNAAAGGTTG CTTAGCTTTT NTTTTNAANA TTTGTTGTN 159

SEQ ID NO:7536

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08780

SEQUENCE DESCRIPTION:

GATCCAAACC CACAGTNTTG TCCTGGAGGC AGCAGGGGTG AAGGTGGAGG GTCCAGGGCC 60  
ATGAGGAGCC CCCTTGCCAT CAGAGCCTGG CCTAACCACC CTCTTCTCTA CTTACACACA 120  
CATGCATTTT ATAATAGCTC TGACCCAACC TGGCCACTCT GCAGAGACTG GGACAGACAG 180  
GTGCAGGCAA TGGGCCCTCC CACACCCAGT CACCTACAAG GAATTTTCAA ATCCACTTTT 240  
AAAACAGAAA CCGGTAAATG CGCCGTATTG TATATTTTAT TTAAATAAAA AAAATTCCAG 300  
CAAA 304

SEQ ID NO:7537

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08781

SEQUENCE DESCRIPTION:

GATCCACCCT TCCTGGGCCT CCCAAAGTGC CGGGTATTAC AGTCATAAGC CACCACACCC 60  
GGCCTAACAT GCATTTTTTT AATTCAATAA ATATTTATTG AGCACCTAAA 110

SEQ ID NO:7538

LENGTH:160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08782

SEQUENCE DESCRIPTION:

```
GATCCCCTCC CCTCCTGCTT TTCTGTATTT TTTAAAAATT ATTTTGTTTT TAATTCACAA 60
ATATTGTATA TGTTATATGG GGTAGAATGT GATGTTGATA TATGTTTAAA ATGTGGAATG 120
ATTAAATCAG GCTAATTTAC TTTTTTNNCC NAAAAGGAAA 160
```

SEQ ID NO:7539

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08783

SEQUENCE DESCRIPTION:

```
GATCCACCCA GTTGCTCAAG TAAAAACCT GAGAGACACC TTACGCCATC TGGGAACCTG 60
TTAGAAATTC TTAAACCTCA TTCTATACCT GCTAAATCAG AAAATGTAGG GATTAAGTCT 120
GATTATTTGT GTTTTCGCAA GTCATCCNGG TGATTCTGAT GCATGGAAAG TTTGAGAACC 180
ACTGGTTTAG GTTATTAATAA GTTCTTGTCT CCCTATAAA 219
```

SEQ ID NO:7540

LENGTH:355

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08785

SEQUENCE DESCRIPTION:

```
GATCAGAGAA GACTTTAAAA CTCTTGACTT AATTGAGTAA ACTCTTCATG CCATATACAT 60
CATTTTCATT ATGTTAAAGG TAAATATGC TTTGTNAACT CAGATGCTCG TAGCCAGGAA 120
GCCAGGGTGT GTAAATCCAA AATCTATGCA GGAAATGCCG AGAATAGAAA ATATGTCACT 180
TGAAATCCTA AGTAGTTTTG ANTTTCTTTG ACTTGAATCT TACTCATCAG TAAGAGAACT 240
CTTGGTGTCT GTCAGGTTTT ATGTGGTCTG TAAAGTNAGG GGTCTGTTT TNGTTTCCTT 300
ATTTTGAGGT AAGAGTACTG CTNGGTGGTC GGGGGGGTTA TATNNTNCCC TTTTN 355
```

SEQ ID NO:7541

LENGTH:314

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08786

SEQUENCE DESCRIPTION:

```
GATCAGGTTT CCCCTCAGAA CCTGTGTTGC CTGCCTGCTG TATCTTCCAT GTCTTTCTTA 60
TTCAACTTCT AGAAGTAGAG AAGGTTGGGA CTTGAGTGTA GAAGAAACAT CAGAATAATT 120
TCAAAAAACA GGAAGTTGGA ACTATAATTT TTAAATTATT GTATTGTTTT TACGGATTTT 180
ACATGTATAG TTAAATATTA ANNTTCATCT CTTGCAGTTC ANTAAAAGCT ATAGTATAGA 240
TTTTATTTTT AAGAAGTTTA TATAATNCTT TTGTGAGCCA ATATGTAAAA CTNGAATATT 300
TATTANCCT ANTN 314
```



SEQ ID NO:7542

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08787

SEQUENCE DESCRIPTION:

GATCACAGAG AAAGTGATTA CAGACATTGC TGGGGTAATA CCAGCTGAGA AAATTGATGG 60  
 AGTATTTNCT GCCTGTNAGA GTGGCTCTTT TGACAAACTA GANGCTGTGG TCAAGGATTT 120  
 AATAGATGAG GGTGATGCAG CAACTCAGCT CGTCAATCAN CTCCATGATG TGGTTGTAGA 180  
 AAATANCTTA TCTGATAANC AGAAGTCTNT TATCNCAGAA AACCTTGCCG AGGTTGCCAA 240  
 ANGCCCTGGCA GATGGTNCTG TTGTCCATTT GCANCTCATC NGCCTTTTNG CCCTGNGN 298

SEQ ID NO:7543

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08788

SEQUENCE DESCRIPTION:

GATCAAAATT AAAGACAGTT AAAAAGGTGA AA

32

SEQ ID NO:7544

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08789

SEQUENCE DESCRIPTION:

GATCATCATT TATTGCATCT CATAACTAAA TTTNNTAAAG TTTGGATTGG GACTTTTNAG 60  
 GTCCTTTTGG GAGGGCAAAG GAAGTGCCAG CTTCTNTGGG GAAGTTGTTT TTAAATCCAA 120  
 AGACTTGAAC CACATTCCCT GCACATGANC ATGTTTGCTT TTATCCCTTC TCTCATTGTN 180  
 TCCTACCCAT CTTAGTACCA TTGTGGTTAT AANCATCTGC ATTTNTNAGA AGCATTTNAC 240  
 CCATTNNNN 249

SEQ ID NO:7545

LENGTH:257

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08790

SEQUENCE DESCRIPTION:

GATCATATGG AATGTAATAT TTTGTAATGT CTTTTTTCAT TTTACAATGT ATTATCAACC 60  
 TTTTCCCTCT CAAAATACA TTGTGAATGA CTGCATAGTA TTCACCTTAT GANTATTTAA 120  
 TTCATTTTAC AGTCTTCTAT TGTNGGACCA CTNACATTGT ACCAAATGTT TTCCTTTGGT 180  
 TTATTCTTTA ATGTATTAGT ATTTTACTGC TGGTCACTCA TGGAAATCCTG CAGCTTTTANT 240  
 NAAAAGCAAG GATGAAA 257

SEQ ID NO:7546

LENGTH:158

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08791

SEQUENCE DESCRIPTION:

GATCGTGCCA CTGCACTCCA GCCTGGGCGT TGCAGTGAGA CTCGGTCTCA ACAACAACAA 60  
AAAGGTGGAT ACATGTCAAA AGGGCACAGG AGCCACTTGA AGGATTATAC TTGCTAAATC 120  
TGTGTCAATT ATCAAAATAA ACTGGTAGCA ACGTTAAA 158

SEQ ID NO:7547

LENGTH:128

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08792

SEQUENCE DESCRIPTION:

GATCAAAGGG ATGAGCAACA GGGACTTCTG CCACAGTGAC AATGGAATTG TGTGTGCCT 60  
TACTTCAGAG GTGGTCTCTN CTTTCTTGTA ATAAAAGCAA TATTTATGCG GAAAGCAAGC 120  
AGCTCAAA 128

SEQ ID NO:7548

LENGTH:205

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08793

SEQUENCE DESCRIPTION:

GATCACATCA AGCTAAAAAA CTTCTACACA GCGAAGGAAA CAAAGTGAAC AGAATAACAT 60  
GGGAATGTTT TCTGTAATTT AGTAGTAAGT GGCAATAGTT TACAAACACA TTTTGTGTAT 120  
ACTGCTGTCA TTGCACTGNT TACCTTCTGT TGTAAGTACT TTGTTCTATT AGTCCACTCA 180  
ATTAAATAT TTGGTTTTGT TTAAA 205

SEQ ID NO:7549

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08794

SEQUENCE DESCRIPTION:

GATCTTATTT TTAATGTAGT GAGGATATTA TTAAACTTT TATTTTAACT GGAAATGTCC 60  
TGAAACACAT ATTTAAATA TTGGGATACA GTGAAAGAAA AATTCAAATT TTAATAACAT 120  
AAAGATTTCC TAACTTTATG TTATTGANCA CTTACTCACT AGAAGTGAGT TCTTTAGAAA 180  
ANTACAGTGA AGGACTCAGT TCAGTCTTGT TTTTATCAGA GTGATAATCA TCCTGTTTCA 240  
CATCCCAATA CTATTTTGAN ATTCTAAACA ATGGAACCCA AANTNCCAAT AANTATAAGG 300  
TTATGCCTTC AATATATTCC TATACANTTC TGTAAACCATG GTTTANNATA CACAAGCTTA 360  
NNATACCATG GN 372

SEQ ID NO:7550

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08795

SEQUENCE DESCRIPTION:

GATCCGGTNG TCTAAATGCA TTCATATTTT TATGATTGTT TTGTAAATAT CTTTGTATAT 60  
TTTTCTGCAA TAAATAAATA TAAAAAATTT AGAGAAA 97

SEQ ID NO:7551

LENGTH:244

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08796

SEQUENCE DESCRIPTION:

GATCTGGGTT TGGCATTAGA AGTATTTTCAT AATTTTGGTT TTTNATTTAG GTTTCCTCAA 60  
CATCTGTAAA GTGATTGATT AAATTAGAGG AGGCGTGTAG AATAAATCCC AATCCCATTG 120  
CAACTGGCAG AGCATTATAA NTNTTTATAA ATNCAGTTAC AACAAAGGAG AGGNTCTACA 180  
TTCTTCAAAA AANAAANTTG GCTTACCTGT TTCANCTTN GGTGGCATT NNCTGCCATT 240  
NGTN 244

SEQ ID NO:7552

LENGTH:364

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08797

SEQUENCE DESCRIPTION:

GATCTGGGAA TTACCCATCA TCATTAAGCA ATGAAACAGA CCGGCTGGTG CACTGGTGCC 60  
ACGGCGCCCC GGGGGTCATC CACATGCTCA TGCAGGCGTA CAAGGTCTTT AAGGAGGAGA 120  
AGTACTTGAA AGAGGCCATG GAGTGTAGCG ATGTGATTG GCAGCGAGGT TTGCTGCCGA 180  
AGGGCTACGG GATATGCCAT GGGACTGCTG GCAACGGCTA TTCCTTCCTG TCCCTTTACC 240  
GTCTCACGCA GGATAAGAAG TACCTCTACC GAGCTTGCAA GTTGCAGAG TGGTGTCTAG 300  
ATTACGGAGC ACACGGGTGC CGCATTCTCG ACAGACCCTA TTCGCTCTTT GAAGGCATGG 360  
CNAN 364

SEQ ID NO:7553

LENGTH:129

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08798

SEQUENCE DESCRIPTION:

GATCTGTGTG TCTCTGTTT GAGTTTTTCC TGTTTATTTT GAAAAGTACT GTTGGTCAAG 60  
ATAATTGGTC AATAATCCAT GTTGGTTTTA ACAAAAAGCA TTTTAACATT AAAAATATTA 120  
CAGTATAAA 129

SEQ ID NO:7554

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08799

SEQUENCE DESCRIPTION:

```
GATCACATTT TNATTTTTN TTCTCCACAT CAGGATAGTT TACTGAAGCA CAATCTCTTA 60
TACTAGTGGG AAAAAAGGGA GAAAAAGGAA GCAAGATAAA TGGGTATGTA GGATGAAGGG 120
TTATTTAAAA TGGAATAAAA GATAGAAGGA GGAAGTAGG AAGANATGGA ATNNTTTANN 180
TNTGAGGAAA GATATCTNTG GTAGACATGT CCTTCCATGA CTAATTTCTA ATTGTNACTC 240
ANCACACATT GAGGTATGGN CCCTCCTCAG TGACTTTNAC TAGCTCAGAN ACGTACTCCC 300
CCACCANCCC CACCTN 316
```

SEQ ID NO:7555

LENGTH:365

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08800

SEQUENCE DESCRIPTION:

```
GATCAGTGGA ATTCTTGTT TGATGATAAC CTTATTAATT GAAATNTTTT ACTGATGTGG 60
CTTTAAAGA GGTATTNTT GTATATGTTT AGAACTCTCT GATTTTNATG AATTATATGG 120
GAATGAGAAA CAGAAGAAGT GGTATTNCT GCGAGTTAA ATAGGCAAGG TACCCAGTGA 180
TAACACCAAC CAAACCACTC CTATCTGCAT GATTCTGAAC ATCTGGATGC CTGTGGTTTT 240
ACTGTGTATA TNTNATTTTT AATATATTAC CTTTGTGGAT NCATTTAAGG TCTACTCAA 300
NGTANCACTG TCAAACCAC TAATATGTAT GTNAAANTTG TNCTGTNTAC TACATTACNG 360
TNCAN 365
```

SEQ ID NO:7556

LENGTH:349

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08801

SEQUENCE DESCRIPTION:

```
GATCTTGAGT AACTGAACCT ATTTCCCTTA AGGTATAAAA ATTAAATAA CCTGTATATA 60
TTTGNTAACA NCTTTATNAG GGAGGTAAGT NACTTACAAT ACATTGCACA TATTTAANGT 120
ATAGANTTCG ACGAGTTTTG ATGTATGTTT GCACCTGTGA AACCATCACA ACAAACAGTG 180
AGCATATCTN TCACCCCTAA NNGTTTCCTC CTGTCCCTTG GTAATCCCTC TNTTACCTGT 240
CCCACTTCTG TTCTCAAGA NCCAATTACC TGCTTTNNTN ACTGTTAATG TACGTGAGTT 300
TACATTTTTG AGAGTTTTAT CCAAAGGGNA TCATGANGTA TGTNCTCTN 349
```

SEQ ID NO:7557

LENGTH:369

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08802

SEQUENCE DESCRIPTION:

GATCTNATCA ATCTAGCGGG AGAGACAGGA TAACCTGTCC GAAAGTATAG CGCCACTATN 60  
 ACTCCGCCGG AAAAATTACT TTA AAAATCG CCAAAAATTA CTTGGAGCAA AGGGCAGTCG 120  
 GCGGANTTCG CCAAGGCTGG CGCAGTCGGT TTTNACCTGT AGCAGAGAAC CNGGNCCTGGA 180  
 GAACAGCCTC ACTTCTTTNA TTGANTACTT ACATAATGCA TTGGAACATG ACATGAGATT 240  
 AAGGTTTAAT AATGATAGAN TGAAGACCAC AATAAAAGAG ACCTCTACTT AGCTCAGCAA 300  
 TTCTTACCTT TCTTACCTAT TTGATGGAGG NTGTCTTTTG ANAGGTGTNC TGCAGGGNCC 360  
 AAANTGTTN 369

SEQ ID NO:7558

LENGTH:290

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08803

SEQUENCE DESCRIPTION:

GATCTTGAT GCCAACTTT AATCTGCTTT TATGTTTTCA GGCTGAAGGT GTGAAAATCC 60  
 TAAGAGGATT TCATATTGAA TATGTGTACA CAATCTTAAC TATCGTGGTG GAAAACATAC 120  
 TACTATAATT NATTATTATA TCTNCCAGAT AATGTTATTC ATTTAGAACA AATAAGGTAT 180  
 ATTTNTNAGA ATCANCTTTG TAAGCACTAT AANNNCTTTN ATAAGTTATA AGGTCTATGA 240  
 TGTGTTTACT TTAANNCTTG CTGTTAANAG CAACACGTAT TANNTATGTN 290

SEQ ID NO:7559

LENGTH:55

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08804

SEQUENCE DESCRIPTION:

GATCTGGATA AATTTTCATT TCTACTTAAT TAAAACTTCC TATGTAAAAT CAAA 55

SEQ ID NO:7560

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08805

SEQUENCE DESCRIPTION:

GATCCCGAAT CCCAGAAATA ATTCATAGNG CACCTATCAT GACTATTTAT TTAATCTCAG 60  
 AAGCTGAATC GTACGTATT TTTCTCCAGG TCATCAGCTT TGGGNNNNN 109

SEQ ID NO:7561

LENGTH:40

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08807

SEQUENCE DESCRIPTION:

GATCCTACTC TCTTATTAAT ATCTTGAGTT TATGTTCAAA 40

SEQ ID NO:7562

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08808

SEQUENCE DESCRIPTION:

```
GATCTGCCGA CCTCGGCCTC CCAAAGTGCT AGGATTACAG GTGTGAGCCA CCGCGCCCAG 60
CCATAACTTT NCTCTTTTCT CCATTAGCTA AAAGATAATA GTAAAACGTA TATTGAACA 120
CTTAATTTTC TCTATATATC TTTTNAGGAT TATATTAGT GTATTCCCA ATTTTCCTAA 180
AATGATTATC ACTTCTGTAA AGAAGAAAAC AATACTACTG GTATTGCATT TGGAAATATT 240
TTNCTATTAA NNTGTCTCAT TTCCTTNCA TGTATGCACA TACATGTNNT TNGTATAGCT 300
CCTTTNNTCA AAANNTATTC TGNGGTTATT ATTTANNN 338
```

SEQ ID NO:7563

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08809

SEQUENCE DESCRIPTION:

```
GATCTTGTGG TCAAGAGCAA TCTGAATCCA AATGCAAAGN AGTTTGTCCC TGGGGTGAAG 60
TACGGAAATA TTAAAGTAGA CGGGGCCCTC TTTTGGTGGA TGTAGCACA TTNCCACACT 120
GTGAAGGCAG TATTAGAAGA CTAAATTGTA AAANCNCTCT TGTCAGTGTG TTACACTTAT 180
GCATTGCCAA AGTTTTNTN AGTCTTGCAT GCTTAATAAA NGTNCAGAGA CTGTTACTAA 240
GTAAAANGCT GTCAANCATT TCCTGANAAT AGANTTGGCC CCATGGCTTG ATGTGAAGAC 300
AGCAAGGNAA GANGCACCAG TCAAGTTGTG ANCAAGNN 338
```

SEQ ID NO:7564

LENGTH:324

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08810

SEQUENCE DESCRIPTION:

```
GATCCCTGCC ACAAGTTCCT TGGGCAGTGG CCATGTCACC ATTGAGATGA AGATATACAA 60
CAGAAAATAG TGGCTGTGTT TGGAAGCTTC AGCCCTGCAC ATTTGAACTA GTCAGTCTCC 120
CAGACTTGCG TGGGTCAGTT CTTTCTGAGT AGAGGACTTG CTGGTAAAGG GGCAGATGCT 180
TTTTATTAGT ACTGATAAAA CAAACTGAGG GAAACATCCC TCTTAGCTGG GAAACTTTTA 240
CTCTTCAGGA GCTTGGCATC ATGGACTGTT AATGTATGTG ATTTTCCCCC TATTTTCTCT 300
CTCCAAAATG ATAAAAACAA TAAN 324
```

SEQ ID NO:7565

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08811

SEQUENCE DESCRIPTION:

GATCCCACTA CGAAACGCTC CAGAGGCTTC GGTTCGTCA CGTTCGCAGA CCCAGCAAGT 60  
 GTAGATAAAG TATTAGGTCA GCCCCACCAT GAGTTAGATT CCAAGACGAT TGACCCCAAA 120  
 GTTGCAATTC CTCGTCGAGC GCAACCCAAG GTGTTCTAGC TGAGCGTTTA AGAGCATGGA 180  
 CTCTGGAACC AGACTTTGAA TCCTTGCTCT GCCACTGCAG CTGTGTGACC TTGAGCAAGC 240  
 TATCTAAATA TTCTGTGCCT TTGTTTGTG ATCTGTACAA TGGAGATGAT GATGGTATCA 300  
 CCTTCATGGG GTTGTGAN 318

SEQ ID NO:7566

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08812

SEQUENCE DESCRIPTION:

GATCTGAGAC TCAGGAACCT TGGCCCCCTT GTCATTACA ACTGTGTGTG AACAGGACTA 60  
 ACAGTTTGA CTGAGAGCAC TGANGCTGCT GTGTGTTGTG CATATAACTT AATGCTGTGT 120  
 GTTGTGGCTT GCACTGCTGT GGGGGCGGGG AGGGCAGTGG TGGGAATGG CTGGCATGAA 180  
 GCTTGCTTGA GCCAATGCTA TGCTTGCTGG GCTTTGGCTG ACTGGCTTTG GGCCACCAAC 240  
 TGTATTGCA TAGTGATGGC TTGGAAGTGT CCATAGAAGG GATTGCAATA AAGGTGTGTC 300  
 TTCCTTCTAA AAA 313

SEQ ID NO:7567

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08813

SEQUENCE DESCRIPTION:

GATCTTGAGT CAGAGAGGAT TGGAAAGTGT TTCTCCTCCA CCCAGGTGAG GTCAGGGGAG 60  
 CTTAGGTCTT AGGGAGATGG CAAGTTGAGG TATGAAGGGA AGCTGGGGCT TTTGGAGCTG 120  
 CCGAACAACCT GAGGGACCCA GTGCGCCTTC CATCCCGCAC TAGTGAATAG CGCCCCCTCT 180  
 TCCCCGAAA ACGAGGTGCG AGAGGAACAA TTCCACGCT GGGGAAGGAC TTGTCTCCTT 240  
 TTCTGTGAAA ATGCTTTGTA AAAAGTTGTT ATTGTTTGA TAGAGCAGAT TCTTGAGAAA 300  
 AACTGTTTTG GACCAN 316

SEQ ID NO:7568

LENGTH:316

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08814

SEQUENCE DESCRIPTION:

GATCCCCGTC TGCTGACCAG CTAAACACCA ATTTCTTCCT GCTTTTCTCC ACTTGGTTTG 60  
 GAAAATCACA CAGTTTTTCA GCTCCATCTG TTTGGAGAAA ATACATTCTG AAGCATCCCC 120  
 AATTCACCTT CTAAAACTC ATGTGCAGGT TTGATAAACA CCAGAACAGA AGACAGTGAT 180  
 GCTGTATTAT TTTAGATTTA TTACATAGAT TTGGAATTCA CTTTTTTCAT GACCTAGAAA 240  
 AAAACATTCC AGTGTTTCANC TGTTTNTAT TATTANGGGG CTTTNNATTT GTGAACCTCT 300  
 GANGGCATGA GTGTTN 316

SEQ ID NO:7569

LENGTH:226

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08815

SEQUENCE DESCRIPTION:

GATCTGGTGT ACCAGGCGAA GTGGTCCGAG CAGGCTGAGC GATACGACGA AATGGTGGAG 60  
TCAATNAAGA AAGTAGCAGG GATGGATGTG GAGCTGACAG TTGAAGAAAG AAACCTCCTA 120  
TCTNTTGCAT ATAAGANTGT NATTTGNGCT AGNNGAGCCT CCTGGAGAAT AATCAGCAGC 180  
ATTGANCAGA ANGAAGAAAN CAAGGGAGGA GAAGACAAGC TAAANN 226

SEQ ID NO:7570

LENGTH:306

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08816

SEQUENCE DESCRIPTION:

GATCAAGAGT TAAATAAAAA GCCCCAGGAC GAAACAAGAN GAGAGCACTT CATGCCCTGT 60  
GGTACAAAAA AGAGCAGCTC TACTTAATGC AATTCTTCAT TCAGCATATA GCGAGACATT 120  
TCTCCTGCCT CATTTGAAAG ACATCCCAGC ACAGCATATC ACGCTGTTTC TTAAGTATTT 180  
GTATNNNNNN GTACCTGAAG TGTAGCGAAA ATNCTACTAT GACTCTNCCT GGAATACACC 240  
CACCTACCTT GANCCAGATT ATGGATTGGN TATGTCTACT TCTGGATGCA AATTTNCTG 300  
TTGTTN 306

SEQ ID NO:7571

LENGTH:304

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08817

SEQUENCE DESCRIPTION:

GATCCTGCGA GGGTGTCTATA ATACCTTGCT TTTCCATGCT TCCTGTATAT TTATCCATTT 60  
CAGCACATCT GCAGTAGCAA TAACTNCTNA TTTNTAAATT TNCTTTTGTG GGGGGAGACA 120  
GGCTTATGGC TGTCTGAGCA GCTGCTGTAG TGTAAGCAGT GAGGTTAGCA GTGGTTGTNA 180  
GATTTNCTCA TTCCTGAGCA CCATGCTGTT GTGTCAGCAG TTGTAATGGA CTGTGTGGGC 240  
ATACTTCCAG TAGGTGATGC TTGCAAGTAN GANCCAGCTG CAGTGGTAGC AGTAGGGTTT 300  
GTAN 304

SEQ ID NO:7572

LENGTH:30

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08818

SEQUENCE DESCRIPTION:

GATCTGTACA AATAAAATNC CAAGTCCAAA

30



SEQ ID NO:7573

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08819

SEQUENCE DESCRIPTION:

GATCATCTCT CCTTGGGTTT TNNTTTAAAA AGGGGAATCT NCTATAAAGG TTCTNTTGCT 60  
TCAAACCAAT GTCAAATAGA CTTNATTTTA AGAGTCATGG AATTACAGTG CAACCTTN 118

SEQ ID NO:7574

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08820

SEQUENCE DESCRIPTION:

GATCTACCTA TACAGTCCTA CATTAGCTTC TAAATATTT GTCAGGAGGG AAA 53

SEQ ID NO:7575

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08821

SEQUENCE DESCRIPTION:

GATCCCGAGG CTTTGTCTTC CTCTCGTCAG TTCTTTTGGT TGTGTTTTTT GTTTTTNTTT 60  
NAANAACCTCA AAAAAAAAAAN AAAAGACTTG GAGGAAGGGA AA 102

SEQ ID NO:7576

LENGTH:362

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08822

SEQUENCE DESCRIPTION:

GATCCTACTG ACAGCCATCG TGCAGGTGCT CAGCTGCTTC TNTCTCTATG TCTGGTCCTT 60  
CTGGCTTCTG GCTCCAGGCC GGGCCCTTNA CCTCCTGTGG GTGAATGTNC TGGGCCCTG 120  
GTTCACTGCA GACAGTGGCA CCCAGCACC AGAGCACAAT GAGAAACGGC AGCGCCGACA 180  
GGAGCGGCGG CAGATGAAGC GGTATAGCC ATTGANATTG TGGCCACAGG CCACTGGGCC 240  
CTGGGTGGCT CTGTNAGGGT GCACAGCCCC TCATGCCTGG AGCAATGAGG GTCTAGTCCA 300  
GGGGCCAAAA GCAGTCTTGA GGGTATTGGG GTATACTTAT ACTCTATAGG GGTGTTTGA 360  
AN 362

SEQ ID NO:7577

LENGTH:109

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08823

## SEQUENCE DESCRIPTION:

GATCACTCAT ATAACATGTC ATTTTTTTGG TTCTGTTTGG GTTTGGTTTT TGCCAATNAT 60  
 TTTGTTATAT TTCCAAAAAA CTAAATAAAA ATNATTTTAA TTTTNNAAA 109

SEQ ID NO:7578

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08824

## SEQUENCE DESCRIPTION:

GATCTTCACG GGGCTATTAT TTCAGTGACA AAATCCAAAT GCCCCTCTTA TGTGGGTATT 60  
 ACAGGAATCC TTCTACAGGA AACAAAGCAC ATTTTCAAAA TTATCACCAA AGAAGACCGC 120  
 CTGAAAGTTA TCCCAAGCT AAAGTGGTG TTCAGTGTGG AAACCGATGG CTTTATTTCC 180  
 TACATTTACG GGAGCAAATT CCAGCTTCGG TCAAGTGAAC GGTCTGCGAA GAAGTTCAA 240  
 GCGAAGGGNN CGATTGACCT GTGANTTCTT TGCCGTCTAA GGCAGTTGTT TATGACAGCT 300  
 GAAACTGGA CACTCCCTAA NTGTCCACCT TTCAGTGAAG NGATAGTTAA GCCAATTCN 360  
 N 361

SEQ ID NO:7579

LENGTH:323

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08825

## SEQUENCE DESCRIPTION:

GATCCAATTC GTGCTGTGG ATGCTGCAAG GACTGGCTCA TTGGAGCCAA ACCATGTGGC 60  
 GGAAACTCCT GAAATTGGTG GAAAAAGTGG AATATGGCAG ATTGGGTAGG TAGGAGAACA 120  
 ATTTTGAGTA TTTTCTTCT TATGTAAAG TGTCTGCATT TTATTTGCTG TACCCTGCCT 180  
 ACTCTGTTTT TNAGGATTTT TTGACTTCTT CGAAAAGCAC TGAATAATCT CTTNCCGGG 240  
 TCTAGATTTT TTGATGAGTA CTGTGTAAAA TTGTCAATAT TCAATGGATT ATTAATAAT 300  
 ANNTTAAGAN TTCCAATCAT AAN 323

SEQ ID NO:7580

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08826

## SEQUENCE DESCRIPTION:

GATCCTAAGT TAAGACTCTC CAAAGCAAAC ANTTGGTTTA AATCATTTAT CTGATGTAGA 60  
 TAAAAGGTAG AGAACTTGT AGTGTCTCC ACATAATGGA AAATGTACAA ATGCCTAGTT 120  
 GTGTTGCCCA TCAATTTTGT ATATNTCCAT AATTTTNATT GTTGANAATT GCATTATNTT 180  
 TTN 183

SEQ ID NO:7581

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08827

SEQUENCE DESCRIPTION:

```
GATCCACCTG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCAGGAGCCA CCGCGCCTGG 60
GCCTTTTTTT AAGTTTAAAG NNCCNATAAA GNCACTGAAA GGTGATGTGT GTGGATGAGC 120
TAGGAAGACC TGAAATAGGC TCTCTCTAAA TTAATCAAAT TAATCCTGAA GCCATTCTGC 180
AATACTGTCT TTAATGTATA CTCACCTGTT ATAGAAGCCA GGGTTTTTNC CCCTAATTG 240
TATCATTGCT ATATGTGTTA TTGTACCAAA CTACACTGTT TTAATTGCTG TAAATTTTAA 300
TATGTCTTAG TATCTGGGTG TGGGAATCTT GANAGCATGG AGTTTGTGTN 350
```

SEQ ID NO:7582

LENGTH:348

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08828

SEQUENCE DESCRIPTION:

```
GATCCTTGGG AGAGCTATCA CGGGAATCCA GCGGTTACG GCCAGCAAGT GAGCCGCTCC 60
ATCAGGGGCC CGAACTNTC AAGCCCCTTT NTGGAGAGNT GCCTGGCTGG ACCGTAGAGC 120
GCTGTGCTCT GAGCTTAGAA AGGGAGGTGG CGGATGGAGT GGGAAAGTGA AGACACTGAT 180
TTTNAAATAT CAAAATTTCC CTTCTGAAGT CGTTCAGATG TNTTCCTTAA AAAGAAGATG 240
GAATTCTCTG TAGAGCGTCT CANTCCACTT TTAACCATGG NTGAGAGCAG ACTCCATTTA 300
CCNTGAAATA GCAGCTTCTT TTGAGGGGAG AGTGACATGG AAGCAACN 348
```

SEQ ID NO:7583

LENGTH:258

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08829

SEQUENCE DESCRIPTION:

```
GATCTGCAGG TTTGGGCATA TGCTTTCATC ATTAAATTAT CTGATAAAGT TACAAGTCAC 60
AAAGGAGAAT GAGAACTTAA TGATTCTATT GGATTTAATA TATTAGCAAG AAANCATACT 120
ATTNCATAT GTNTAGCTTA GTAAGGCATT ANCATAAGTN CAANACCTAT GANACAGATG 180
CNTATTTCTT CAACATACTG TGTCAGGTAT ACTGTTTTAT ANTNGGTTG TTTTAGCCTT 240
ATTGCACACC NNCTCCCN 258
```

SEQ ID NO:7584

LENGTH:308

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08830

SEQUENCE DESCRIPTION:

```
GATCCATTTC ATTACAAGTA AAATATTACA AAATATTTAC AGGAAAATAT TAAAAATAAC 60
TCAAACACAA AAGGCAAGAT GAAATAAACT GTTTTTTTT CTCCAGAAAT CTCTACTCCA 120
GTGCCACAG CACACAAGAG TCAAAACAAA TAAGCAACTA AGNTCCTTAC GGAAAAGGNA 180
```

CAGNTTGTTC CTAAACCAGA AGAGGAGGTT GCCCAGAAGA AAAAGATATC CCGGAGGAAC 240  
 CTGAGGANCC NAAACTTTTT GCCCGGGGG TAATTCNGNC TTTNNATTAA TTTTNTTAN 300  
 NGGGNNNN 308

SEQ ID NO:7585

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08831

SEQUENCE DESCRIPTION:

GATCTCTTAT CATAATAAAG AATCTTTGTC ATCAAA 36

SEQ ID NO:7586

LENGTH:227

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08832

SEQUENCE DESCRIPTION:

GATCTAAGGA GGCCAGTGAA TTTCAAACAG GATTAAAAAG AAAAAAACA GAGTTAGGTA 60  
 TCAAATTAAG AATACTGAAA GCAAAGATAT AANTAGAACT TTAAAGCAG CCAGAAAAAC 120  
 AAACATATTA CATATAGGGC AGCAACANTA AGANTAACCG CTAACCTTTG ATTAANNGTA 180  
 ATATAATTCA CAATACANTG TAACANCANT TTTNNGTGCT AACNGGN 227

SEQ ID NO:7587

LENGTH:215

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08833

SEQUENCE DESCRIPTION:

GATCTATTGA GAATGGAATT GTTTTCTTAA TTTCATTTTC AAATTGTTG TTGCTAGCAT 60  
 ATAGAAATAC AAGTGATTTT NTATATTGCT CTTGTATCCT GTGACTTTGC TGAGCTTATT 120  
 TTAGTAGTTT TTTTCACTG AATTCCTTAG GATTTTNTAC ATAAAAAATT CATATCATCT 180  
 GTGAATAAAG ACAGTTTTAT TTCTNAATTT TTAAA 215

SEQ ID NO:7588

LENGTH:43

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08834

SEQUENCE DESCRIPTION:

GATCATATTT TTAAATAAAG CATTTTTTGT AGAAAGTGCT AAA 43

SEQ ID NO:7589

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08835

SEQUENCE DESCRIPTION:

GATCAGGATA ACCAGGATGA TAGCAGTGAC GATGGATTCC TCGCTGATGA CAACTGCAGT 60  
 TCAGAAATAG GACAGTGGCA TATAAGCCT ACTATCTGTA AACAACCTTG TATCCTACTT 120  
 ATGGNCTCAC TCCGAGGCCC TTCTCGGTCA AATGTTGTCA AAATTTTAAG AGAGTATTTA 180  
 GANGTGGAAT GGAAGTTAA AANAGGAAGC NNNAGANGTT TTTCCAAAGA GAAAAGAAAG 240  
 CATAAGGNCA CTTACTCAAC AGANGCACCT TTAGGCGGNG GANCAGNACA TTGTGTCAAT 300  
 AGTNTCTCNG GTTGCCCTT TCTNTTACTT GTCN 334

SEQ ID NO:7590

LENGTH:235

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08836

SEQUENCE DESCRIPTION:

GATCAAATTT AAAATCAGT TTAAAAGTG GTTCCCGACT TCTTTCCTTT GGAAGAATTT 60  
 GGNCTNATGC TCATAAGCAG TTCATGAGTG ACAAGTGTAG CAAAAGCCAG CCATATATTT 120  
 CNAGANTCTA TATCCTCAGG AAATGGTCCT TTTTTCCT ATAANTCACC AACCAACTAT 180  
 CTAANTGGNC ATTTGGGGGA NTTCCCTCCC AAATTGATT TTNTNATTNG AAAAN 235

SEQ ID NO:7591

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08837

SEQUENCE DESCRIPTION:

GATCCAGAGC ACAGATGGCA AGTTGTGTGG ATGATACTGA ATATNTTAT TTTCCTAAAG 60  
 ATAAATNTCA CGACACGACA TTTCTCAGT TTAATTTAGA TGTTATNAC CATGTGTAA 120  
 CAGAATCTTA AAACCAAGG NATTTCTTCA GTAACTAGA CTTTGATTCA AA 172

SEQ ID NO:7592

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08838

SEQUENCE DESCRIPTION:

GATCAAGAGG AAGCATGACT TGCACAAGAT GGCAGAGGCC AACCGTGCCC TGGCCCACTA 60  
 CCGCTGGTGG TAGAGTCTCC AGGAGGAGCC CAGGGCCCTC TGCCGCAAGA AACAGTGTGA 120  
 GCTACTGCCA CGCTGAAAAC TACCTGTGGG TTAAGGATGT AGTTCCTTTG TAAGGGTGGG 180  
 CAGGCCTCGT AAGAAAGATG TAGCAGCATA TTCACTATCC GTTAATCCTT CTTTCTTTGA 240  
 GGTGGAAGT TGCTCTCTCT GCCCCTATTT CTTGTAAAG AGGGAGCACA TTGACTTGGG 300  
 AATTCTCTCC AGGAAACTCA GGGCTGTTTT CTCTN 335

SEQ ID NO:7593

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08839

SEQUENCE DESCRIPTION:

```
GATCTGGGAC TTCTTTAGTA TCGAGTCTCC TTTGCACTCT TAAAAATTGT TGAGGACCCC 60
AGAGAGCTTT TGTTTTATG GGTGTATCT ATCAATATTT ATCACATGAG AAATNATTTA 120
TTTATTTTAA AATAACTTTT TTATTGAGAA AGATAGCAGT GTTTTTTTTT AATCTTGCAA 180
ATTGTTTAAT GTTTGATTGA ATGGAAGACA GCCAGATTGT CCTATCAGCA TTCAAACTGC 240
TGCAGTAAAGT TGTTTTGACT AATGTATATG AGGAAAACCT GACCTCACTG AGATTTTAAT 300
TGGAAAATGG AGGAGTATTT TNCCAGCCTT TNN 333
```

SEQ ID NO:7594

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08840

SEQUENCE DESCRIPTION:

```
GATCTCCTCC ATACGGAAC TTCTCATCTA CGTGGCCCTC CTGCGAGTCA CTCCATTTAT 60
CTTAAAGAAA TTGGACAGCA TATGAAGACA GGACATCACA TATGAATGCA CGATATGAAG 120
AGCCTGGTTA CAGTTTCGAC TCCTCTCTGC AAGTGAATAG GCCCAGAAAG GTGTAAGAGA 180
CTCTTTGAAT GGACATAAAA TTCTGCTTGT TAAGAACAAA 220
```

SEQ ID NO:7595

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08841

SEQUENCE DESCRIPTION:

```
GATCTGTGCT GGCCACGTGC CCGGNGTCTC AGCTCTGAAC CTGCTGTCCC TGCTGAGAAG 60
CTCTGAGGGC CCCTCCCTGG AGGACCTGTG AGGGTGGCTG GCCCTGGGC TGCCCTTCT 120
NATGGCTTCG TGCTGACTCC ATAAACATTC TCTGTTGAGG ATGTCCAGTC AGGGCTTGAC 180
AGGCCCAGGN TCAGCCCGCC GTGGCTGGGA AGGTTCCCTG CAGTGCCAGT GCTGCAGCAG 240
GGAGAGCTGG GCAGAAGCAG CGAGGGGGCC CAGCTGGCGA GACTGTAGCC CCGTCCCACT 300
CCCACACTCA CTCTGTTAG AGCCTN 326
```

SEQ ID NO:7596

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08842

SEQUENCE DESCRIPTION:

```
GATCAGATGT TGAACGTGC TATGCTGTAG CGTGTCTGGA AACAAAGTAC ACAAACCTGG 60
CTACGGTGAT GAGTTAGCTT CTGCTTACTA CCTGTNACAA CCCAAGTGGG TGACACTAGT 120
GAACCTTCTC CAGTCTCGAG GCTGGCATAG AAGGCTCTTA GATTATATTG GGCAGCTTGC 180
```

AATCTGCCGA AGCAGTGA CTGATTTCCT CACTTGGCTT GAGCACTCAA CCCAGAAGGC 240  
 GAAGATAGCT TTTGGTTGTA GGC GGCTTCC TGTATGGGAT ATCCCTCGGT AAGGGTAAAG 300  
 GAGCAGAGGC AAAGGAGAAA AGCAGTN 327

SEQ ID NO:7597

LENGTH:278

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08843

SEQUENCE DESCRIPTION:

GATCTTTCTT CCTCCCTG CATGAGGCAG AGGCAAGCTG CCTGCCAACC CCCTCCCTCA 60  
 AGGAATGGCC TTGCCCAGGA ATGCCACCA CACATACCCT CTNCTTTTT NNTAGTCAA 120  
 CTCTTGTTA TTCCTTGNT TGCNTCCCTC CTCCTCCCC TCTCAACCTT TACTTCTGAT 180  
 TTNATTCA TGAATTGG GATTGANGTT AAATAACA AGTGCCGCCA ACACCAAGTN 240  
 TTGCAGGAAA AAAATACAAA GAAATTTANC ANANAANN 278

SEQ ID NO:7598

LENGTH:202

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08844

SEQUENCE DESCRIPTION:

GATCTTCATT ACCGTTNCAT GATTGGAAAT ANTAAAAACA TTGTACAGTT TTAGTATAGA 60  
 GAAATNTAAT GGNTTTTGT AACCAGTTTC TGTCTGCATG TAATTTGGAT TTCTCAAATA 120  
 CATTCAATAG TAATTNATCA GTAACATTAG TTTTATTTNN GTCCATCTCC TTATCTATAA 180  
 AANGGGGATA TNCTTAGGAT NN 202

SEQ ID NO:7599

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08845

SEQUENCE DESCRIPTION:

GATCCATAAT ATAGCATCAC ATCTCAATAA ATTTATTTGG AAGCAAA 47

SEQ ID NO:7600

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08846

SEQUENCE DESCRIPTION:

GATCTGCCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CTGTGCCTGG 60  
 CCCCTTCCTG TAAATTTTN AAATGGAGAA TTGGGTGCNA GATGTGGTTT CCAGCCTGGT 120  
 GCCTGGGGTG CTGAGCTANN NGAGTGGTGC AGTCCAGGAC ACCTTTGCTT TATCTCACTT 180  
 ACACGGTCAC CTGGAGCCGG CTCAAGTGGC TAAAGCATCC TGGGGCCCAG AGCCAGGTGA 240

TAGGTCCCTN TGGCCAACTG GACAGTTGAG GCCTGTGGTT ACCCGAAGCC CAGCTTGGGG 300  
CCCTGGTCCA GCCTNGCCTC CCAGGAN 327

SEQ ID NO:7601  
LENGTH:326  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08848

## SEQUENCE DESCRIPTION:

GATCTAGATG CTGGTATTGA GGTGGGAGAC AAGTACTGCC ACCNGAAACA ACAGTCTTGG 60  
TAAATTTAGC CGACGAGGGT AAACACATCC TAACAGGGAA GGTAACTGT ACGTCCATCA 120  
GTACCACTAG AGGGCATCNC NGGTTTATAG TTCAATACAG TGAATATATC AGANTAATGG 180  
CCTTTAGTTT TCCTGAAAGA TTAANTTAGG CTTGCTAACT TGTTTAATGN GATANTCAAA 240  
CATATGATGT AATTTTAAAG GGTTTACATT TTTANAANTT TAATGGTTGC TACATAAAAN 300  
GGGNTTCAGT TAACTNATTT TGCCTN 326

SEQ ID NO:7602  
LENGTH:310  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08849

## SEQUENCE DESCRIPTION:

GATCTCAGCA GGAACCATG GAAGCACCCA CCCCTTGCA TTTTGGCTTA CCTGTAGCGG 60  
AATGCAACAG AGAATTTTAT ATGCTAAGAT TTGTGGTTCC GTGGGAGAAT ATTTCAAACA 120  
GGTGGAAACC ATCAAATAA AAGAGAACCA GAAATCATT AAAGGTCACG TGAGGAGCTT 180  
CTGTNTTGTG CAACTTAAGC CTTACCAGT CTCCTATGCC CAGGTGCCCA GCACCCCAT 240  
CATCTGCATA TTCACCATCC TCAGGTCAGA TTCTATGATA CTGNNATAA AGGCATTCTG 300  
GAAAANTAAA 310

SEQ ID NO:7603  
LENGTH:287  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS08850

## SEQUENCE DESCRIPTION:

GATCCGGTCA GCAGCCCCTG TGGCTAGAGG AACACCAGCA CAAACGACAG CCTCAAGTCT 60  
CCTTCGAGCT TTATATCCAT TTGGGGATGA AGTCTACTTT NACAGCTAGC AAGGCGACAT 120  
GCAACTGTTG TTGAATGATG ACAGCAATTC AGGAAAGACT TAAATATGAA AGCAAATTGA 180  
NCACATCGGG TGTGTGNAT CAGANNAGNG NTGNGATGTG ATAAGACTTG TTTATTGACT 240  
AGCCAATATG TCATTACCT TCNGGTTTAT NTTGTGNANC CCCANN 287

SEQ ID NO:7604  
LENGTH:66  
TYPE:nucleic acid  
TOPOLOGY:linear



CLONE:HUMGS08851

SEQUENCE DESCRIPTION:

GATCGAGTTT TGGTTCGGGT TAACTGTGTG CCTACTGAAC CTGGCAAATA AACATCACCC 60  
TGCAAA 66

SEQ ID NO:7605

LENGTH:339

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08852

SEQUENCE DESCRIPTION:

GATCTGGAAT GTGAAGCGTT ATAGAAGATA ACTGGCCTCA TTTCTTCAAA ATATCAAGTG 60  
TTGGGAAAGA AAAAAGGAAG TGGAATGGGT AACTCTTCTT GATTAAAAGT TATGTAATAA 120  
CCAAATGCAA TGTGAAATAT TTTACTGGAC TCTATTTTGA AAAACCATCT GTAAAAGACT 180  
GAGGTGGGGG TGGGAGGCCA GCACGGTGGT GAGGCAGTTG AGAAAATTG ANTGTGGATT 240  
AGATTTTGAN TGATATTGGA TAATTATTGG TAATTTTATG AGCTGTGAGA AGGGTGTGT 300  
AGTTTATAAA AGACTGTCTT AATTGCATA CTTAAGNTN 339

SEQ ID NO:7606

LENGTH:337

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08853

SEQUENCE DESCRIPTION:

GATCCTTTGT GAGCAAGTTC TATTTGTTCA TTGCTTGCCA GAGATGAACA CAGAATGTTT 60  
TGTTTCATTT TACAAGAACT ATCCTGAGTT TCTGTGGATG GAAACATTAC ATGTAATGCA 120  
GATATAGTGA AACTGGAAA GATTTATTAA AGANTTATAT TTGTGTATAC TTTATAAATT 180  
AGTCCCTCAT TAGATTTTTT TTTTCTTAAG CATAAGACTG ANCTTAAATG TGTTAATTTT 240  
AGTAGAATCA GGCAGTCTC GCAGAAGGAN CACAGATTGT NGAGATTAAC ATAAATNGTT 300  
CTTGTTCTAA TATATATNTN TNNCCATTTC TGTCGAN 337

SEQ ID NO:7607

LENGTH:203

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08854

SEQUENCE DESCRIPTION:

GATCCGTGGA TTGAGGGTGC CTTTCCATTT ATTTGGTCT TCTTTACTTT CTTTCAACCA 60  
AGTTTTGTAG TTTTCAGAGT ATAAATTTTA TACTTGTTTT GTTCAGCCTA TTAGTGTTTT 120  
ATTTTGGTG CTATTGTAAA TNAATCTTC TTAATTTCAA TTTCAGATTA TTAGTTTAAA 180  
TATACAGAAA TACAGCTGAT AAA 203

SEQ ID NO:7608

LENGTH:207

TYPE:nucleic acid

2153480

TOPOLOGY:linear

CLONE:HUMGS08855

SEQUENCE DESCRIPTION:

GATCAAACT TTTATAATA CAAAGACATT ATTATTTGNT TTTTCACTG TCCCTCCTG 60  
 AATATACAAC GGAGCATTCC AGATGCTAGA GTGACAGCCT CACTCAGACT CAGGGGATGC 120  
 ATGCTTGCNT GTACAGTACT CGTATGTTTT AAATTTGTTT TAACTCCTAA TATGTAAGTA 180  
 TCAATAAATA TAATCACCTT AAGTAAA 207

SEQ ID NO:7609

LENGTH:249

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08856

SEQUENCE DESCRIPTION:

GATCTTCGTG GTGAAAGCT AAATTTTAAA ACCACCCCAA TGGATGCAGA CAGTGATGTT 60  
 GCATTGGACA TTCTAATTAC AAATGTAGTC TGTGTTTNA GAACAAGATG TCATTTAANC 120  
 TTAAGGAAGA TTGCTTTGGA AGGNGCAAAT GTAATTNATA ANCGTGATGT TGGAAAAGTA 180  
 TTANTGAGGC TTAGAAAACC TAGANTTACA GCTACANTTN GGTCTCAGG AAANNTTATT 240  
 TGCNCTGGN 249

SEQ ID NO:7610

LENGTH:319

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08857

SEQUENCE DESCRIPTION:

GATCTGTAGT ATTTTAATGT GCATCTACTT TAAATGAGTC ATCTTGGGGT TTTTATAATT 60  
 CCCTTATGTT CTCGCCCCCTC TACACTTGAA ATAACAAAAT GCCTTAATTT TATGGATTAG 120  
 NTCTCTTATA GGAGACAGGC AGCTATATGN AGCAANCCCA GTAAAGTTAT TTTTCAACTN 180  
 TCANAGTTGT AAAATATTTT ATAACAGTTT ACANCAACAG CTGNAGANCA ACATGCCACA 240  
 TTTNTTTGC AGCATTTTCA AATANTTTGT TTTGTGGTGT NAGCACAGGN TAAANNTGGG 300  
 GNGCGTCGAT GTGAGGCGN 319

SEQ ID NO:7611

LENGTH:208

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08858

SEQUENCE DESCRIPTION:

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTTCCCCCT TCGTTAGTCG 60  
 TATATGGCCT ANGAAAGCAA TACAAGANTC CAATGATACA AACAANGGCA ANGTAACCTT 120  
 TAAGGGTGCA GACATGAATG GTTTACCAAC AAAAGGNCCA ACAGAAATCT GTGATAANNC 180  
 GNAAGACTAA NGAAATTTTC CNAAGGN 208

SEQ ID NO:7612

02149

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08859

SEQUENCE DESCRIPTION:

GATCTTCCCA CCTTCAGCCT TCCAAGTAGC TGGGACTACA GATGCACACC TCCAAACCTG 60  
GGTAGTTTT NAAGTTTTT TGTAGAGGTG GTCTAGCCAT GTTGCCTAGG CTCCCGAACT 120  
CCTGAGCTCA AGCAATCCTG CTTTCAGCCTC CCAAAGTACT GGGATTACAG GCATCTNCTG 180  
TAGTATATAG GTCATGAGGG ATATGGGATG TGGTACTTAT GAGACAGAAA TGCTTACAGG 240  
ATGTTTTTNT GTAACCATCC TGGTCANCTT AGCAGAAATG CTGCGCTGGG TATAATAAAG 300  
CTTTTCTACT NCTAGTCTAA A 321

SEQ ID NO:7613

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08860

SEQUENCE DESCRIPTION:

GATCCTTCCT AGGGGATGGG GGAAGCCCTG GCTGCAGGCA GCCTTCAGG CAATATGNNG 60  
ATAGGAGGCC CACGGGCCTG GCAGTGAGAG GTGTGGCCCC ACACCGATT ATGATATTAA 120  
AATCTCAACT CCCAAA 136

SEQ ID NO:7614

LENGTH:47

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08861

SEQUENCE DESCRIPTION:

GATCCCGTCT CTACAAAAA TAAAAA TTAGTCGTGG TGCCAAA 47

SEQ ID NO:7615

LENGTH:36

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08862

SEQUENCE DESCRIPTION:

GATCACTTT TCAATATTAA ATNTTATTTA CATAAA 36

SEQ ID NO:7616

LENGTH:260

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08863

SEQUENCE DESCRIPTION:

GATCATCATG AAATNATAAG AGGGCTTAAG AATTGTCCA TTTGCATTG GAAAAGAATG 60

ACCAGCAAAA GGTTTACTAA TACCTCTCCC TTTGGGGATT TAATGTCTGG TGCTGCCGCC 120  
TGAGTTTCAA GAATTAAAGC TGCAAGAGGA CTCCAGGAGC AAAAGAAACA CAATATAGAG 180  
GGTTGGAGTT GTTAGCAATT TCATTCAAAA TGCCAAGTGG AGAAGTCTGT TTTTAAATAC 240  
ATTTTGTGT TATTTTAAA 260

SEQ ID NO:7617

LENGTH:102

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08864

SEQUENCE DESCRIPTION:

GATCAACTTT AGTCACCAAC CCAAATGGAG GATTNTGGC TTGTGGGNCC TTATATGCCT 60  
ATAGNTGTGG ACATTGTCAT TACACAACTG GANTCTTNC TN 102

SEQ ID NO:7618

LENGTH:228

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08865

SEQUENCE DESCRIPTION:

GATCAAGGGG CCTCTCAGAA CCATGTTCCC CAGCCAGGTG AGGACCATTT TAACTGGGAC 60  
CCAGGNCAAA ACCATGTGGG TGCACAAAGC CAGGCACTGC CAAGTGGAAC ATGAGGTAT 120  
TTCCAAATCA TGGGAGCCAC CAGCAGGGAG AGGGCAGTAT GGAAATCCC CTGGAGCCGG 180  
TCAACTNTTT GTCATGGCT AGTGAAATAA AGTTGTTGA GTACTAAA 228

SEQ ID NO:7619

LENGTH:113

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08866

SEQUENCE DESCRIPTION:

GATCTCTTAC TCCCCAGTT TGAATGGTAA ATTTGAATGG TAAATTCCCA TGAACATATA 60  
TGGAAATATC TTTATCTAC TTTNTCCAAT AAAGGCTGTT CTTAGCTTTT AAA 113

SEQ ID NO:7620

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08867

SEQUENCE DESCRIPTION:

GATCACCTGN CAAATGTTTG AGGACGGAGC TGTGCAGTCA CATTATTGGG GATTCCACAG 60  
CTGGTGCTGC AGGCTTGCG CCTCCAACCA GGACTTNTT CTTAATGCTC TCGACACTTA 120  
GCTAAACAG ACTATATCCC GGCCAGCAG GCCCAGCGC CGTTAGTCTC CAGCTGACTC 180  
TGTGGGTTGG TCTTAAAGCA AATTCTGTTT TGTGGACTGC CTGGCAATTT TTNAGCTAAC 240  
TGTAATGATA AAAAGGGAGT NTTAATCTAT TCTGAATCN 279

SEQ ID NO:7621

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08868

SEQUENCE DESCRIPTION:

GATCAAGTTG TGGTGGATAA CGTGTITCCA AATTGCATCT TGTTGCTGAA ACTTCCTGGA 60  
CTTGAGAAGT TACTTCATCA TGTGACAGAG GAAAAAGGTA ATCCAGAAAT AGACAACAAG 120  
AAATATTACA AGTNCAGCAA AGNGAAGACA TTAAAGTGGC TGGNAANNNN GGTTAATCAA 180  
NCTGTGGCAG CATTAANN 198

SEQ ID NO:7622

LENGTH:184

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08869

SEQUENCE DESCRIPTION:

GATCCAGAAA GTAGCAATAT AGGACTTTAA GGGGTATGTA TTAGTGTAAT TAATATATGT 60  
GCAGTCTAGG CTAATCATNT TAATTAAAAA CAAATAAGCA TACTTTTTTN CTTTAAAAAT 120  
ATGCCCTCAA AATGGTGGGG GATAAANTGT AAGATATTCT TTAGCTGNNN TTATTTNNCC 180  
GNCN 184

SEQ ID NO:7623

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08870

SEQUENCE DESCRIPTION:

GATCCTAAGT CTCTTACAAA AGCTTTGAAT ACTGTGAAAA TTTTTACAT TCCATTTTCAT 60  
TTGTGTTGTT TTTTAACTG CATTTTACCA GATGTTTTGN TGNATCGCT TATGTTAATA 120  
GTAATTCCCG TACGTGTTCA TTTTATTTTC ATGCTTTTTC AGCCATGTAT CAATATTCAC 180  
TTGACTAAAA TCACTCAATT AATCAATGNA AA 212

SEQ ID NO:7624

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08871

SEQUENCE DESCRIPTION:

GATCGCAGAC CGCGCTGCC ACACGAGTC CCCGGGGAAC AACGTGGTTG GACATCAGCG 60  
TGCCGCCCCAC CACGGACGGA CAGAAGTCTC TTTAAGAAAA TAGTTTAAAC AATTNGNTAA 120  
AAAATTTTCC GTCTTATTC ATTTCTGTAA CAGTTGATAT CTGGCTGTCC TTTTATAAT 180  
GCAGAGTGAG AACTTTCCCT ACCGTGTTG ATAAATGTNG TCCAGGTTCT ATTGCCAAGA 240  
ATGTGTTGTC CAAAATGCCG TTTAGTTTTT AAAGATGGAA CTCCACCCCT TTGCTTGTT 300

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TTANGTATGT ATGGAATGTT TATGGATAGG GACATAGTAG TAGCGGTGGT CAGACCATGG 360  
GAANTGGGTG GNN 373

SEQ ID NO:7625

LENGTH:74

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08872

SEQUENCE DESCRIPTION:

GATCCTACAA GCATGCTGC TGTAACCTA TGTATGTTTT CTGTAAAATC ACATACCTAT 60  
AAAATAAAAA GAAA 74

SEQ ID NO:7626

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08873

SEQUENCE DESCRIPTION:

GATCGTGAAC ACTGCATTCC AGCCTGGGTG ACAGAGCCNG ACCCTGCCTC AAA 53

SEQ ID NO:7627

LENGTH:379

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08874

SEQUENCE DESCRIPTION:

GATCTACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGCGCCTGGC 60  
CCTCTGCAGT TGTTTAATAA GGCACAGAAT ACCTGTAGCA TAGGTCAGCC TTACGATGTC 120  
CATGAATTAC ATATTCAGAC GTTTTAGAGC CTGATACATT TTGGAANCGA AAAACAACTT 180  
CTACACCTAT TCTACAGTCC GCATTAAAA CAATAAATTC CTCTATTAAA AACGTAAAGC 240  
CGGGTTTGCT TGCGTGCCAC AGGGGGTATA TCCAGGAAGG TTATTATGAA GCTGTCAAAT 300  
CAAGATGATG GNAATAAGGC AGTTTGAACG GACAGTCTTC CCACAGTCAG GCCATTTTGT 360  
CTGATTTGGT TTAGGATTN 379

SEQ ID NO:7628

LENGTH:212

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08875

SEQUENCE DESCRIPTION:

GATCGGGCGC TGTGCAGTGT GGTCAGCATG GTGAAGAAAG TCATTTCTTC GGTGGGCAGT 60  
ATTCTCTTTT ATCTCTCATT AACTGGAAA TGTATTCTCT GCTGTATCAT CCGTGCTCAA 120  
CGTTTTAGTC TGTCAGGCTC ACCTTCTCTC TGGAAAGAAT TTGCTTAACT TGACATTCCA 180  
TGTGCCGCTA ATAAATATA TTTGAAAGA AA 212

02153

SEQ ID NO:7629

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08876

SEQUENCE DESCRIPTION:

GATCAGAANT AATTACCATT CCCNGTGTTT TGCTGTAGGA CCTTCAGGTC TATGTTCTAA 60  
GTGGGGNTTA TGAAACTGGT AATAGAAAAT AATGGAGAGC AGTTAAAGAG TTAATATACA 120  
TTATTAATAT GNGTGCTCTC TACAGGCACA CAAAGCCTGT AGACTCAACA AATTACTCC 180  
TGAAGTTTTC CAAATTGCA AAATCTGCAA TTTNTGTGCC ACATAAAGCT NTCCAGAAAT 240  
TGAAAANCNG TAAANCACCG GGTCTCANTT TTTCTCTGCA TTTCACTGAT ACCTTAANTT 300  
ACATAGNTTA NCTTCTTTAN AGCACTACCT TTTNGCTGT TGNTATTAA 350

SEQ ID NO:7630

LENGTH:76

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08877

SEQUENCE DESCRIPTION:

GATCTCACA CTGCACTCCA GCCTGGTGAC AGAGCAAGAC TCCATCAAAA ATAAACAAAT 60  
AAAACAAACA AACAAA 76

SEQ ID NO:7631

LENGTH:185

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08878

SEQUENCE DESCRIPTION:

GATCAAAGTC TGCTTCATTG TCTTGTTCCC CATTTTAATG GCAATGTTAG GTATAATNTT 60  
TGCTTTTATT AAGTATAATN TTTGCTTTTG TTGGTAGAGT TTTACGATTT TACATCAGAA 120  
GTACCTGTTC AACTTAATTG CCACGTTTAA GCATCAATTA AAATATTTTC ATTGAACTCA 180  
TGAAA 185

SEQ ID NO:7632

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08879

SEQUENCE DESCRIPTION:

GATCTTTTAG GAATTAACT TGCAAATNAA ATGAAATATG TTGGGACTTT GGCATAATTT 60  
GAATATAGCA TTGTGTGAGT TGTGATTGTN TCTTCCTAAT TGTGCTGTAA TAACCTGTGT 120  
ATGAGAATAA AATGATTTC ACCATCAAA 149

SEQ ID NO:7633

LENGTH:193

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08880

SEQUENCE DESCRIPTION:

GATCTCACTC CATGATTACT GTGTAAAATA TTTTGCACCT GTTGTGAAGT ATTTTAACT 60  
TTTTTCTGTA CATAACTGTG TTCTCAGAGC TGAATGTTA TATCTTTGC TGTGCAAAAG 120  
AAACANNNA AATGTTGTTT AGTTGTATAT ACAGAAATGT GTATAAAACA TTTTGTATT 180  
TTNAAAAGT AAA 193

SEQ ID NO:7634

LENGTH:148

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08881

SEQUENCE DESCRIPTION:

GATCAAGAAT TTTGTAGAGT GGACAGTCAT TACATATGTT ATAACCTATC CTTTAAAAAC 60  
TATTTTAAAC TTTATCCTTT CAGCTTTACT TAGTGCGATG TTTTAGAAGC AGTCTTCAA 120  
GAATAAAACA CTAACCATGC ATGTGAAA 148

SEQ ID NO:7635

LENGTH:376

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08882

SEQUENCE DESCRIPTION:

GATCCATTTC TGTGTCCTNT AGCCTAGTAT GTCTGAACTT CCATTCTTGT TATATATTTA 60  
AACTTTCCCT CTATATTATA GGNTTNGTGG CNNCCACGGT CAGGTGTAGA GGAAGCTGCC 120  
CCTTGCAGAA CTGTACTGTA ATATTTTCT TTTATAAATA TTTTACAGG ACTGATTGTA 180  
CACAGGGCTT GTAATAAAAT TTAAACACTG TGCTGTGAAA CAACTATGGG GAATCTCCAT 240  
TGAAGGCTAC TTCATGGGCA CCTGAAAGTG GAGTGTATA GCTATGACTT TCTATTTCT 300  
GTTTCCTAAG TAAATTAAC CTAATTTCA CCCTTTCATT CTGTTTCAGC CTCCTGTNTA 360  
AGGAAGTACC GTTGN 376

SEQ ID NO:7636

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08883

SEQUENCE DESCRIPTION:

GATCCCATTC ATTGTCCCCT TTGGGGTATT TCCAATACTT GAATGGCAGA TTGGAGTTTT 60  
TCAGAGTATG TGTTTCATCT GCTAGTCTTT CTCTCCTTCA TAGCTTTTCT TTTCTGGAC 120  
TTGCTCCTTT TGAGTTGCTT TTGCGTTTCT CATGCCTAGG CAAGTGTAAT AGAAATTATG 180  
TAGCTCCTTA TGTTGGCAAA GGAGCTCTAT ATAGTTTCAC TTTGTATACA AGTTAGGNCC 240  
AGCTGTTGTT ACATGTAATA TNNTGGTTCA GAACTTGAN 279



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SEQ ID NO:7637

LENGTH:373

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08884

SEQUENCE DESCRIPTION:

GATCTCTGAT TGCATCTATG TGGATTCTTT TTGGAGGTTA TGTGCTAAA GAAAAAGACA 60  
TAGTATACCC TGAATTGCT GTATTTNCC AGAATGCCTT CATCTTTTTT GGAGGGCTGG 120  
TTTTTAAGTT TGGCCGCACT GAAGACTTAT GGCAGTGAAC ACATCTGATT TCCCACAGCA 180  
CAACAGCCCT GCATGGGTTT GTTTGTTTTT TTAGTGTCTA CTCCCAACCT TTTGTAATGC 240  
CATTTNCTAA ACTTATTCT GAGTGTAGTC TCAGCTTAAA GTTGTGTAAT ACTAAAATCA 300  
CGAGAACACC TAAACANCA CCAAAAATCT ATGTGGTAT GCACTTGATT AACTATAAN 360  
ATGTTAGGTG GTN 373

SEQ ID NO:7638

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08885

SEQUENCE DESCRIPTION:

GATCACCA CTGGCACTCC AGCCTGGGCG ACAGAGTGAG ACTCCGTCTC AAA 53

SEQ ID NO:7639

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08886

SEQUENCE DESCRIPTION:

GATCCGAAC TGAATCACAT CCTGTATGGT GGATGGACTG TATATTGAGG GTTCCATTCT 60  
TCGCGCAGTT TAGACATCTC TGTTTGTATT CTTTGTGTT GTTTTATTT TAAAAGGCAC 120  
AAACTCTAGA TATTAGTTGA ATGTTGAGGC TTAACTTTT TCGGTGTCTT TCTACAACTG 180  
TGTTCTGTGA CTCAATTGTG TCGTGTAAAT ATCAGTACAG ACTGTCTCCT CTACGTGACC 240  
GTATAATGTT TTTCTCTCT TGTAGTCTCT ATGGCGTGTC TTTATGGTGT AATAAGGTTC 300  
TCACGGGTTC AATCTTTTGT GTTTAGGGNN NNCACGGTTC AGACCAAATG GTATATAATT 360  
TTN 363

SEQ ID NO:7640

LENGTH:270

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08887

SEQUENCE DESCRIPTION:

GATCTGGTTC TGAGGAGGAC ACACCTGGCA TCGGATGACC TTTATAAATT ATCTATGAAA 60  
ATGCCAAAAG CTCTCAAGCC AAAGAAGAAG AAAAATATTT CCCATGATAC TTTTGGTACA 120  
ACTTATGGAA GGATTCATAT GCAGAAGCAA GACCTAAGCA AACTACAAAC CAGGAAAATG 180

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AAGGGGTTGA AGAAGCGACC TGCAGAAAGG ATAACAGANG ACCACGNGGA AAAAGTCAAA 240  
 AAGAATTAAA AAAAATTGAT GGAACCTAAA 270

SEQ ID NO:7641

LENGTH:336

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08888

SEQUENCE DESCRIPTION:

GATCTCTGAA AAGACGTTAT CACCTTAAAG CTCAAATTCT TTGGGATGGT TTAACTTAA 60  
 GTCCATTAAC AATTCAGGTT TCTAACGAGA CCCATCCTAA AATTCTGTTT CTAGATTTTA 120  
 AATGTCAAGT TCCCAAGTTC CCCCTGCTGG TTCTAATATT AACAGAACTG CAGTCTTCTG 180  
 CTAGCCAATA GCATTTACCT GATGGCAGCT AGTTATGCAA GCTTCAGGAG AATTGAACA 240  
 ATAACAAGAA TAGGGTAAGC TGGGNTAGAA AGGCCACCTC TTCACTCTCT ATAGANTATA 300  
 GTAACCTTTA TGAAACGGGG CCNTNTAGTT TGGGTN 336

SEQ ID NO:7642

LENGTH:331

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08889

SEQUENCE DESCRIPTION:

GATCCATTTT AGATACTTGT GGCAGCAAAC AAAGCAGTTC ACCTCTACAA ACTGGGAAAA 60  
 ATGAAGACAA GAACTCTATC TACTGAAATN ATTTTCANCC TTTCCCAAAA TAACAATATT 120  
 TCAGAGGCTT TGAAAAAATT TGGTATCTCA GCAAATGACA CTTCAATTCT AATTGTTTAC 180  
 ATTGAAGAGG GAGAAAAACA AATAANTCAA GANTACCTAA TATCTCAAGT AGAAGGTCAT 240  
 CAGGTTTCTC TGAAAAANTCT TCCTGAAATA ATGATTATTA CAGANGTCAA ANAGGTATAT 300  
 AANCTCTCTT CACAGGNGGN ANGTATCGGA N 331

SEQ ID NO:7643

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08890

SEQUENCE DESCRIPTION:

GATCCACTGT CCGGCAGAGG AAAAATGCCA GCTGTGGGAC AAGGAGTGCA GGCCGCACAA 60  
 CCTCGGCAGG CACCGGGGGG ATGTGGCGAT TCTACACAGA AGATTACCT GGGCTCAAAG 120  
 TTGGCCCTGT TCCAGTATTG GTTATGAGTC TTCTGTTTAT CGCTTCTGTA TTTATGTTGC 180  
 ACATTTGGGG CAAGTACACT CGTTTCGTAGA TTCAGTTACA TCCATCTGTC ATCTGAAGAA 240  
 GGAGGAAAAA ACCCAACATT TCTTGGACCA AAAGTATAGT GACTATCTGT TCATGAGAGA 300  
 AATTTTCTGT NAGCTTGCTG TTTTGAN 327

SEQ ID NO:7644

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08891

SEQUENCE DESCRIPTION:

GATCAAGATG AAGTTCAGCT AGAAGTCATA CCACCCTCAG GAATCAGCTA AGTAATTATN 60  
 ACTTGATTCT TTTAGCAAAT CAATGCACGT NATCCTACTT AATCCTTAAA TAAGTTTAGA 120  
 TTAACTAAC CCAAAGTCCA GGAGGATGTT CTTACAAAAN TAGCTATATC ANGGGCTGGC 180  
 ACCTAGACAT TAANCTGTAA TTNGANAATA AGCAACATGT TGCATAACTN GTTGGGAATA 240  
 TTCCTTGTC TGTTTAACAC TTGTCATAAN TTAGCAGNGT AANNNTN 287

SEQ ID NO:7645

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08892

SEQUENCE DESCRIPTION:

GATCTACCCA ATTAGAAATG CAACTTGAGA AACCCAAACC TGTAACCA GTGACGTTTT 60  
 CCACAGGCAT CAAATGGGT CAACATATTT NACTGGCACC TATCACAAG CTTGAAGAAG 120  
 CTCTGTATGA ATACCAGCCA CTGCAGATAG AGACATATGG ACCACATGTN CCTGAGCTTG 180  
 AGATGCTAGG AAGACTTGGG TATTTAANCC ATGTCAGAGC TGCCTNACCA CAGGACCTTG 240  
 CTGGAGGCTA TACTTCTNCT CTTGCTTGTC ACAGNGCACT ACAGGATGCA TTCNGTGGGC 300  
 TTTTCTGGCA GCCCAGTTAA CCATTN 327

SEQ ID NO:7646

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08893

SEQUENCE DESCRIPTION:

GATCTGGCTG CTCATGAAGA CAAAGTTCAG AGTGTAGACT GGACAGACAC AGGGCTACTT 60  
 CTGAGTGGAG GAGCAGACAA TAAATTGTAT TCCTACAGAT ATTCACCTAC CACTTCCCAT 120  
 GTTGGGGCAT GAAAGTNAAC AATAATTGTA CTATAGAGAT TATTTCTGTA AATGAAATTG 180  
 GTAGAGAACC ATGAAATTAC ATAGATGCAG ATGCAGAAAG CAGCCTTTG AAGTTTATAT 240  
 AATGTTTCA CCCTTCATAA CAGCTAACGT ATCACTGGGG CTTATTTGT ATTTTATAAT 300  
 AAGNTAGGGT TGTGTTTNT NAAATNCGN 329

SEQ ID NO:7647

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08894

SEQUENCE DESCRIPTION:

GATCTTCAAG TGAACATCTC TTGCCATCAC CTAGCTGCCT GCACCTGCC TTCAGGGAGA 60  
 TGGGGGTCAT TAAAGGAAAT CTGGGACAAC AAA 93

SEQ ID NO:7648

LENGTH:283

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08895

SEQUENCE DESCRIPTION:

```
GATCTGCATG CATTGCTTGC ATTTTNTTGG TATCTGAATG TTGGTTCCTT GTTCCAGGAA 60
TTCAACATTA NTTTCCAAAA GTATCATGGG ACTTGTGACA ATACANGTCA TGAATCTATG 120
TATAAAATTT ATCGGCCTTT CTCATTTACC TGCTCTAGTA TTATTGTATT GTGTGTGCGT 180
GCGTGTGTGA TGTCAGGCTG CCACGTAAAA CTTCAGAGGA AAATCTTAA NGCAGGCCAT 240
CCTTTTNGC ATGCTCTATT CTAAGTAGGA ATGTTCAATG TAN 283
```

SEQ ID NO:7649

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08896

SEQUENCE DESCRIPTION:

```
GATCACCTGT AGGTCAATAG TTCGAGACCA GCCTGGCCAA CAAGGTGAAN CCCATCTNTA 60
CTAAAAATAC AAAAAATTAG CCAGGTGTGG TGGTGTGCAC CTGTAGTCCC AGCTATTTGG 120
GAGGCTGAGG TGGGAGAATC ACTTGAACCT GGGAGGCGGA GGTGTCAGTG AGCTGAAATC 180
GCGTACCACA CTCCAGCCTG GGTGACAGAG CGAGACTGTG TTTCAAAGAA AAAAANAACC 240
AGGCAGCCTT TTGCTTGGTT GGAATCTGAT TTTCTN 276
```

SEQ ID NO:7650

LENGTH:182

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08897

SEQUENCE DESCRIPTION:

```
GATCTAAATA TTCAGGTTTT AAGCCTGCTG CAAACTTTTA AAATATTATG ATAGNTTCTG 60
TACTACATGT GGGAAACAAG CAAGAACTAA ATAATCAAAT GTTGTCAACC AAAAGTAATA 120
GTTGGGTATT GGAGATTTTT TTAATATGTT TTTATGTTAT TNGCTATTG GAGTTAAATA 180
AA 182
```

SEQ ID NO:7651

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08898

SEQUENCE DESCRIPTION:

```
GATCTNAGAA AACGTTTAAAT ATCAGATTN TTTATTTTNN CCAACACAAC TGAATCAGTT 60
TTCTTAAATA AAAGTTTATT GTCTACTGTT AAA 93
```

SEQ ID NO:7652

LENGTH:275

2153480

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08899

SEQUENCE DESCRIPTION:

GATCTAAAGT TAGTGCCTT TGCCTGTAAA ACATGTGATT TGCAAATTAT TATTTTNNTT 60  
 TTTTAAACA AATGGAAGTA AATTGTTTC ACGTAAATCT TAATTTTCAA CCTTCTGGA 120  
 TACCTTAATT GTAACGTCA GTTGCACTG GTCGGTATAT GGAAACACAT TGCTCTACCC 180  
 TGCTACTTAG TTGNTTTTAA AGTGAATTN CAGTGATNG AAATTTGTGA AANNTATATT 240  
 GTATTTCTTT TGATGTTTCA AAAGGTTGCC TATGN 275

SEQ ID NO:7653

LENGTH:279

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08900

SEQUENCE DESCRIPTION:

GATCTTTAGG TGTGAACTG GGAATATGCT CTGCAACACC CAGGATTAGG ATAGAGATGG 60  
 ATTCATTTT ATATGGGCTA GCATATTATT ATTAAAGACC ATTCAGGAG TGGGACTGTG 120  
 AAAGGAGGTG CTCTGTTATC TGGTCCAAGA GCTCCTCTGG GAATTAATCC TGGCTGGTTC 180  
 TGATGAGCTG GCAAGNGCA GNGGATTGCA GTCTTTAAGT AGAAAATTNG AACCCCATCC 240  
 ATATAACACG TGNACGTGCA TTAAATAGCT TGAATTGTN 279

SEQ ID NO:7654

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08901

SEQUENCE DESCRIPTION:

GATCAAGACC AGAAAGAAAT TATTGATACC AATGGAGCTG GAGATGCATT TTTGGAGGT 60  
 TTTCTGTCTC AACTGGTCTC TGACAAGCCT CTGNCTGAAT GTNTCCGTGC TGGCCACTAT 120  
 GCAGCAAGCA TCATAATTAG ACGGACTGGC TGCACCTTTC CTGAGAAGCC AGACTTCCAC 180  
 TGATGGAAGA GCTGAAAACA CAAGCCCAGG AGTGCAGACA CTGCCCTAAT TGCTTCCTGA 240  
 GAATTCCTCAT ATTAATAAAG ANG 264

SEQ ID NO:7655

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08902

SEQUENCE DESCRIPTION:

GATCTTTTAG GAAAAAAAT AAATATTTT AACATTAAAG CAGTCACTTT GGTTTATCAA 60  
 A 61

SEQ ID NO:7656

LENGTH:66

02160

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08903

SEQUENCE DESCRIPTION:

GATCTGTTTG CTTAGCTGTC AACAAAAAGA AACCTGAAG GAGCATTGG AAGTCAATT 60  
GAGGTN 66

SEQ ID NO:7657

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08904

SEQUENCE DESCRIPTION:

GATCTNACTA AGCTTTCTTA GGAAGGGAAA GCATCTGGCA AGGAGTAAAA TGTCTGTTTC 60  
CAACAATTGT CCCTGTTCCC ACTACTTTT AAAAATGTCC TTAGTAAAAA GTGTATATGA 120  
GGCAAGATTA TATTGAAAAA NTGAATATAA GAAAAAATA TTATGTTAGA GAGNAACGTA 180  
TTCAGCATTG TTNTCAAAT CACAACTGT TAGGNGACTC TGACATCAGG TTTGTTCTCC 240  
ATATGCAGCA AN 252

SEQ ID NO:7658

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08905

SEQUENCE DESCRIPTION:

GATCTACATG GATGTTCTGT TCTCTGAAC GTCTGGATGA ACCGGTCAAC GGCACATC 60  
ATACCTTAGT TTTTAAATCT GCATTGTGGT CATAATCTGT TATTTAATTA ATTTCTCGTA 120  
TTTTTAATAA AAACTTTGCC TATATATTT AAA 153

SEQ ID NO:7659

LENGTH:23

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08906

SEQUENCE DESCRIPTION:

GATCCCAAAA GTAGCAAGAG AAA 23

SEQ ID NO:7660

LENGTH:280

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08908

SEQUENCE DESCRIPTION:

GATCAATTGC AGAATGATAC AGATAGTACA ATGACTTTTT TGTAATTTG AATTAAAAGT 60  
TTCCTCATAA AACTCAGTAC TATCTATTGG TAATGGATGC ATATATGTAT GTACATGTTT 120

TTNAAACGGA TTGGAAGGAT ACAGACCAAA CTCTTGATAG TGGTCACCTG TGAAGAGTGG 180  
AGAAGGGGAAA ATNATGAGTG TGGGAGGTGG GATGGGTATT GGTAAANGG GACTTCAGCT 240  
TTTTATATAA ACATCCACTT CTCTTTCAAA AAGNCTTCAN 280

SEQ ID NO:7661

LENGTH:137

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08909

SEQUENCE DESCRIPTION:

GATCATTTTA AAAAAGTAA TCTATATNAT NTTAACTTC AGAAGGCATC ATTTATAAGA 60  
CAGTATGGCA GTTAATTATA AAATNATTTT GATGAATTAT GATACAATCT ACATAATAAA 120  
GAATNCTTTT GATTAAA 137

SEQ ID NO:7662

LENGTH:305

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08910

SEQUENCE DESCRIPTION:

GATCCTAAAA CTGTCTCTCA CATTATATAG TAGATGTTTG TTTATAATGT TTACAAAACA 60  
TTTTGGTGAA TTTCTCAAT GTTTTATAAA TGTACATTTT TTAAGTCCTT AAGCTGACTC 120  
TTAGCCATCA TGTAAGCTTAA GGAGTCTGAA ATCTGCCATT AAAACTGCAC CTTTAAGCCA 180  
GGTGTGGTAG CATGTGCCCTA TAGTCCCAGC TACTTGGGAG GTGGAGGTGG GAGGATTATA 240  
AATAGAGACT TTCCTTAAGA CTTTAAAAAT GTATTGNNA ACTATTTTTT ATTAAATACT 300  
TTGTN 305

SEQ ID NO:7663

LENGTH:103

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08912

SEQUENCE DESCRIPTION:

GATCCTAACC TTGAAGTATG CCTTGAAGTT ATTAACATGG CCATTATAAG AATAAAATAT 60  
GTAGTTGTGT CTTAATGGAA TTAATAAATG TCATTTCACT AAA 103

SEQ ID NO:7664

LENGTH:211

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08913

SEQUENCE DESCRIPTION:

GATCAAGGAA TAAAGAATCA TTAAAGAATG GGGTGTGGG GGTTCCTTA ATTATCAGTG 60  
ACACATTAAT TTTTTCCTT AGAGCTTCAT ACAATAAACA CATTGCAGAA AGTTTTAGAA 120  
AGTTTTGCAG GACCTTAAAT TTTCTGCCCT GACACTTTTC GTCATGTTTC CTGTATTCCN 180

GGTTATTGTA GCGCATGCTT TTCAGGTAGT N

211

SEQ ID NO:7665

LENGTH:71

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08914

SEQUENCE DESCRIPTION:

GATCTTAAAT TTTGTGATAT GGAGCCCTGT AATNTTTTTC TTATATAAAA ATGGGTATCT 60  
ATATTCATAA A 71

SEQ ID NO:7666

LENGTH:344

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08915

SEQUENCE DESCRIPTION:

GATCCAGCT CATGGCACAG CCGTTTGTAT CCTCGGAAGA ACGGAAGGAA CGATGGGAAC 60  
AGGGCCAGGC TGATTATATG GGAGCAGATT CCTTTGACAA CATCAAGAGG AAACCTTGACA 120  
CTTACCTCCA GTAGAAACAC TGCATTTTTC TGTGAACACA TCCACTTCAC AAGCCTTGTT 180  
TCTGATACTT AGTATCTAGA GCTGGGTTGA GAAAAGTCTG TTACAGTTGC TAGAGGTTTT 240  
CATTAAANCT TATCAGGNGG GCGGCTTTTT TAGGATAAGA GGTGAGAACT GGCCAAAAGT 300  
TGTGAAGCAG CAATTCTGTT ATATGGNCAG TGTCTGCTT TTTN 344

SEQ ID NO:7667

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08916

SEQUENCE DESCRIPTION:

GATCAGACT GCTGCACTCC AGCCTGGGTG ACAGNGCGAG ACTCCATCTA AAAAAACAAA 60  
AAGCAAAAAA ACCCACAAT ACCTCATGGA GATGAACTGT AATAATTGCT TAAAGTTCCA 120  
TTTAATTATG TTAACCTAA TCTAGCAAAA ACATAGATGT ACTTAAAAAT AAATCATGGA 180  
TAATGATTTT TTAACCTAAA 200

SEQ ID NO:7668

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08917

SEQUENCE DESCRIPTION:

GATCTCATTT TCAAGTNTGA GTCTGACCAA CCATGGAAAA TATTCGACAT GAATTAATGT 60  
AGAGAACTAT AAAGCATTTA TGACAGCTCC AAGAAAAGTC ATCTACTCTA TGCAGGAGAT 120  
ATGTTTAGAG ACCTCTCAGA AAAACTTGCC TGGTTTGAGG GTACACAGTA CCATTTTAAT 180  
CTTCTGAAAA TATCTGTATT CCTGCTCTGG GGNTGCTGTC ACTGTCAATC TGCTATATTT 240



TTCATATCC TATTAAAATA TTACTGTCTC CTTTAAA

277

SEQ ID NO:7669

LENGTH:163

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08919

SEQUENCE DESCRIPTION:

GATCTTCTAC ATTTATATTT TTAATCTTCT GTTAAATACA CTTTCCGATA TTGCCTTGCC 60  
TTTTGAGCTC TTGCTACAGT CGCCTTTGCT ACTGCTTTAA GAGAATTTAC AGGTATTGAT 120  
AAAGAACAAG ACTGTTTTAT TAAAAGNTT ATTCAACTTG AAA 163

SEQ ID NO:7670

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08920

SEQUENCE DESCRIPTION:

GATCCAAATC TGGTTCAAAC ATTCAAACCT TCAAAGATAA TTCATCTTTC GCTAATGCTT 60  
GTGGTTCTGT NGTTCCCTTG AAAAAAATA AAAACCCGAC CCAGCAGCAA A 111

SEQ ID NO:7671

LENGTH:155

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08921

SEQUENCE DESCRIPTION:

GATCTGTCAC TGTTCCCCGT CACCCTCAGA TGGGACCGTC TAGTTGTAGG AAAACAAGCT 60  
CAGGGCTCCC ACTGATTCTA CATTTTGGTG AGTTGTATAA TTGTTATGTA TTGCAATGTA 120  
ATAATAATAG AAATAAAGTG TACGATAAAT GCAAA 155

SEQ ID NO:7672

LENGTH:239

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08922

SEQUENCE DESCRIPTION:

GATCTGGAGA GGTGTTTTGT GAAAGTGGAG AAGATTCACG AAAAGGTCTA AATGAATTGC 60  
GTGTGCAGGG CGCGGATTTA AAGTCCAATT TCTCATGACC AAAAAATGTG TGGTTTTTTC 120  
CCATGTGTCC CCTACCCCCC AATTTCTTGT CCCCTCTTAA AGAGCAGTTG TCACCACCTG 180  
AACACCAAGG CATTGTATTT TCATGCCAG TTAACCTATT TACAATATTT AAGTTCAA 239

SEQ ID NO:7673

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08923

SEQUENCE DESCRIPTION:

```
GATCCTTTCA TTAATCAGAA CAGCAGCTTA TNAACTGCTT CATTTTCCAA AAGTGTTC 60
CAAAAATCAG AAACCTAAAC ACCCAACAAC AGGAATTATT GCCATCACAT TGGCGTTT 120
CATATGTCAC GAAGTTCACC TAGCTGGTTT TAAATACAAC TTTTCTGANC TCAAGAGTCC 180
TTTGCACTAC TATGGGAATG CCACCATGTC TTTGATGANT AAGAACGCGT ATCACAATGT 240
GACTGCAGAG CAGCTCTTTT TGAAGGACAT TATAGAAAAA ANACCTCGTA ATCAACTTGA 300
CTCANGATTG ACTCTACAGA CTCGGAN 327
```

SEQ ID NO:7674

LENGTH:377

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08924

SEQUENCE DESCRIPTION:

```
GATCTCCNT AATTGGGAAT GAANGATTC ACAGACTAGA GTCTCCGATG CTGGTCATGA 60
TGTCAAAAT AAGTTCAGAC TCATTAGGG AACTGGATAC TTGGGTCTCC AGAAGGGCCA 120
ATGGGAGGGC CATAATTCTG TTTATTTTCA AATTGTCTTG TTTTCACCTT GTTAGAATGA 180
NCTNTGGAAG CCCAGCCAGG GACAATGCAC CTTACAGAG ATTCTGCACT AATCTGAGTG 240
AAGGTCTAAG GTTTGGAATC TCCCCCTCAT GGAGAGAAGC TTTGTATGGC TGTCATGCTT 300
AGACAGTGAT TCCTGCAACT TGACCTTCAG GCTGGGAGAG GTNGAGAGCC ATGCCTGTTT 360
CTCCTTNCTT TGCTATN 377
```

SEQ ID NO:7675

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08925

SEQUENCE DESCRIPTION:

```
GATCTGCTTC CCGCAAGACT CACAGCTGTT GGCAGGAGAC CTCAGTTTGT TGCCACATGT 60
TCCCCTCCAG AGGGCCTCTC ACAACATGGC AGTTATTTGT CCCCAGAGCA AGCAACACCG 120
GAGGGCAAGG AAGAAGCCAT GATGTTTTTT GTAACCTAGC CTCTGAAAGT GTCATACCAA 180
TTCTGTATTT TGTGGTCAC ACAGACCANG TCAACTACAA CGTGGGAGAC TCCTACACAA 240
GGCATGAATT CTAGGAGGTG GGCATTTTTA AGTGTCATCT GGAAGGAGGC TGTCACAACC 300
TGGAAGTTAA AAGCATTGAT ATTCTGAAAT ACAGCGTGTA TTACCATGGN 350
```

SEQ ID NO:7676

LENGTH:335

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08926

SEQUENCE DESCRIPTION:

```
GATCTAGAGG AGGATTTGCA GGAAGAGCTC GTGGAAGAGG TGGTGGCCCC AGTCAAAACT 60
GGAACCAGGG ATATAGTAAC TATTGGAATC AAGGCTATGG CAACTATGGA TATAACAGCC 120
```

AAGGTTACGG TGGTTATGGA GGATATGACT ACACTGGTTA CAACAACTAC TATGGATATG 180  
GTGATTATAG CAACCAGCAG AGTGGTTATG GGAAGGTATC CAGGCGAGGT GGTCAACAAA 240  
ATAGCTACAA ACCATACTAA NTTATTCCAT TTGCAACTTA TCCCCAACAG GTGGTGAAGC 300  
AGTATTTTCC AATTTGAAGA TTCATTTGAG GGNAN 335

SEQ ID NO:7677

LENGTH:295

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08927

SEQUENCE DESCRIPTION:

GATCCAAATT TGAAGCTCCA AGGATAGGAA AAAGCTTACT TGTGCCTGTC CTAGACAAGT 60  
ACTAGAGTTT ATATTGAAAT CAAAACCTCT AAAAATAAAA ATCAGTAAGA TTAATTTTAC 120  
TCATTTTCTT AACACGAGTC AGTATGCTTG ANGTTCAT TGTATTGAT GTCATGTAAA 180  
TTTACTGTAA AAAATAAGAA AANNITTTAA AATGCTTTAT TGATTAANTT TAGGGTTGCT 240  
TTTCAGTATA CTCAGTAACT CCGAAGTCAG TGTTAACAGT ACTGAGCTTA CATAN 295

SEQ ID NO:7678

LENGTH:136

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08928

SEQUENCE DESCRIPTION:

GATCTTTTGT TAACTTTTAA ATGGCCTGAG TCCATAGAAA CTGCATCCTG AGAGGTTGCT 60  
CGGCTAGAAA GCGGAAAACC GCTTCACATG AGTGCTCTAC TTTGTAATGA AAATAAACAC 120  
TATTAATACA GGCAAA 136

SEQ ID NO:7679

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08929

SEQUENCE DESCRIPTION:

GATCTGGGAA CGGAAGATGA ATGAATGGAA GATGAATGGT TTCTCTCCA GTTTCTCTG 60  
AGGCAAACAT AATTATACCT NCTCCTTTGT TCTGGGAGGT TTTTCTCTT TCATCTCCCC 120  
TCCATTACAC AAAACAGAGT TGGGTCTATA TTNACCCGG CTGGCTCTTG GAACTGCAGG 180  
GAATCCTGGC TGTTTTTATT TTAAAAAAT TATGAGATTA NCTACCAAAC TTGAGATGTA 240  
AGTTGTGGGT TAGCTCTCGG ATTCTGCTAG ATAACCTGGA ACAAAGCATT AACTTCTTTG 300  
AGAGCTTCNN 310

SEQ ID NO:7680

LENGTH:177

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08930

## SEQUENCE DESCRIPTION:

GATCTGCCAT GTAGGAATGA GACAAATACA GTTTGCTTAT GAAAGGAAAG TGGCATACTT 60  
TTAAATTGGT CTACACAGAA AAGTAAAAGT AACTATTCA TTAAATAAG ATTCATTATC 120  
TAATAAATAT TGAGGGAATA TTTTCCTAA ATAAAAATTT TTCTGACTGC TAACAAA 177

SEQ ID NO:7681

LENGTH:84

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08931

## SEQUENCE DESCRIPTION:

GATCTAAGCT TTCTTAATA TAAAAAAAT NATACTTCTC TGAAGTGGT AATAGAGCAA 60  
TAATTAAATA CATCTTCTGA TAAA 84

SEQ ID NO:7682

LENGTH:285

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08932

## SEQUENCE DESCRIPTION:

GATCTGTTGG GAAAGATAAG AAAGCTATTC AGGCATCAAT TAGACGTAAT AAGGAAACCA 60  
ACACCGTTTT GGCCAGATTG AATAGCGAAT TGCAGCAACA ATTAAAGGAT GTTCTTGAGG 120  
AGAGAATTC CCTGGAAGTT CAACTGGAAC AACTTCGACC ATTCTNTCAC CTATAAGCCA 180  
ATTGCCGTTA ACTGTGAACA TACTTGTTTT TAAGTGGTTT TGGGTTCAAA GCCAATTGG 240  
AGACCTAGAC ATTCAGCTCA CTGCTTAACT CACATTAAA TTTN 285

SEQ ID NO:7683

LENGTH:313

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08933

## SEQUENCE DESCRIPTION:

GATCTCAATT CTGTTTCCTC TCACATGATT ACTTGATAGC TAAGCATCTG ATTGGTTTAC 60  
TGCTTTACCA CTGAGCTGAA ATGCCGTGTT TTCCATTAT TAAATCACA CATGGCTCCT 120  
GTTTTNTCA CTCAGCACTT TTTCTCCATA TTCTCAAGA CGATTGTGAG TATGGTACGT 180  
AACAGGAATT ACATCTGGTA AGTTGTATAG TTTGTGTAG GAACTCTATA TTCATAGCAT 240  
ATTTGTGGAA ATGATACCTA TGGAGGTTTC TCACACTGGT GTGTCATTAT ACATTAATTG 300  
TACAATATGC ATN 313

SEQ ID NO:7684

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08934

## SEQUENCE DESCRIPTION:

GATCAGTAAT GGCAAGAGCC TTNATTCTC GAATGTTTAA AGCCTAGGAG TTCTACAAAA 60  
TTGGNTTCTT TCTACAAGAN TCCCAAAATG GAATGCCTAA AGAGGTNTNN 110

SEQ ID NO:7685

LENGTH:132

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08935

SEQUENCE DESCRIPTION:

GATCCCAAAA ACCGGGCAGC CCAGGAAGGA ACTGGGGAAG GTGGTCATTG AGGGGAAGAA 60  
CCAGGATGCA GGGCTGGCTC AGGGTCTGCG CAAGATGTTT GGCTGATTAA AAGTTAAACC 120  
TTAAAAGAGA AA 132

SEQ ID NO:7686

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08936

SEQUENCE DESCRIPTION:

GATCCCATGC CTGAAATNTG GAAGCATATG TACAAAAATC ATTTTACGT TTTATTTTAA 60  
ATAAATCATT GTGTTTGACC GTAAA 85

SEQ ID NO:7687

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08937

SEQUENCE DESCRIPTION:

GATCCTAGTC ATGACTATAC ATTGTGACAT GGTCATTACA TATGGATTAG ACCAACTGGA 60  
GAATTGCCAG ACTTGTGGTA CCGATTATAT CATCTCAGTC TTGAATTAC TCACGCTGAT 120  
TGTTGAACAG ATAAATACGA AACTGCCATC ATCATTTGTA GAAAACTGT TTATACCATC 180  
ATCTAAACTA CTATTCTTGC GTTATCATAA AGAAAAAGAG GTTGTTGCTG TAGCCCATGC 240  
TGTTTATCAA GCAATGCTCA GCTTGANGAA TATTCCTGTT TTGGAGACTG CCTATAAGTT 300  
AATATTGGGN GANATGACTT GTGCCCTAAA CAN 333

SEQ ID NO:7688

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08938

SEQUENCE DESCRIPTION:

GATCTGATTG GCTCCATCAA TGACCCGGAG CATCCACTGA CGCTAGAGGA GTTGAACGTA 60  
GTAGAGCAGG TCGGGGTTCA GGTTAGCGAC CCCGAGAGTA CAGTGGCTGT GGCTTTCACA 120  
CCAACCATTC CGCACTGCAG CATGGCCACC CTTATTGGTC TGTCCATCAA GGTCAAGCTT 180  
CTGCGCTCCC TTCCTCAGCG TTTCAAGATG GACGTGCACA TACTCCGGG GACCCATGCC 240

TCAGAGCATG CAGTGAACAA GCAACTTGCA GATAAGGAGC GGGTGGCAGC TGCCCTGGAG 300  
AACACCCACC TCTTGGAGGT TGTGAATCAG NTN 333

SEQ ID NO:7689

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08939

SEQUENCE DESCRIPTION:

GATCCATGAA CCCTTTTAT AAGCTGTGTG TGTCCTCTGT ATTATTGTTA TTAACATTTT 60  
TTTAGNATTT GCCTGTAAGT TATTAAAGAC TGATAACTGT AGCTCTTAAA 110

SEQ ID NO:7690

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08940

SEQUENCE DESCRIPTION:

GATCCAGCCA AACGAATTTT TGGCAAAATG GCACTGAATC ATCCATATTT TAATGATTTG 60  
GACAATCAGA TTAAGAAGAT GTAGCTTTCT GACAAAAAGT TTCCATATGT NATGTCAACA 120  
GATAGTTGTN TTTTNNTTGT TAACTCTTGT CTATNTCTCT CTTATATATA TCCCNCTNTT 180  
ATCAAA 186

SEQ ID NO:7691

LENGTH:231

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08941

SEQUENCE DESCRIPTION:

GATCATGTGA CCAATTGTGC ATTCAGTTTT CAGAATTCTT TGCTATATGA TTTGGATTAA 60  
TTCTATATAA TTTTGGACTT TTAAATATTA AGGTTAAAAA ATACCTGTAT CTAAAATTGA 120  
TTCTGTTAAC TGTGTCTTA AACTAAAGG TATTAAAGTA TAANNTTAAA ATTNGCAATT 180  
TTTTTAAAN NNTTGCAATT TTGATTCTCA TGGGGGAAAT TGGAGATAAT N 231

SEQ ID NO:7692

LENGTH:277

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08942

SEQUENCE DESCRIPTION:

GATCACAATT TAATAACAAG TAAAACTTTA CTTTGGACAA TTTTGCCACT TATTTTGTA 60  
TTTGTAAGCA CACGTTTGAA GATATATTTA TGCCATTAAT ATTTTAAGGC ATGTTTTAAA 120  
ATTTACTGTT TTCTGAAAAA TTAAATGNNN CTGGTTTGAT TGCTGGAGAT TTATTCCAGT 180  
TTTNTCAAA TGTATTTTNA TNCTGTATGG TACATTTTNG NGGATTNCCT GATTAATGTC 240  
ATCTTAGCAT TATATTCTGG TTATCTATAA TNNANN 277

SEQ ID NO:7693

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08943

SEQUENCE DESCRIPTION:

GATCTGGGCA AAGCAAATTG AAAACCTTCT GGAAAGGATT CACCATTTTA GATGCCATTA 60  
 AAAACATTGCG TGATTCATGG GAGGAGGTCA AATTGTCAAC ATTAACAGGA GTTTGGAAGA 120  
 AGTTGATTCC CNNCTCATT GATGACTATN AGGGGTTCAG GACTTCAGTG GAGGAAGTAA 180  
 GTGCAGATGT GGTGGAATA GCAAAAGAAC TAGAATTAGA AGTAGAGCCT GAAGATGTAA 240  
 CTGANTTGCT GCAATCTCAT GNTAAANCTT TAACAGNTGA GGAGTTGTTT CTTATGGNTG 300  
 CGCAAAGAAA TN 312

SEQ ID NO:7694

LENGTH:83

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08944

SEQUENCE DESCRIPTION:

GATCTTTACT GTTCAGAATT TAGGAAAGTT CTCTGGCTGT TGCATCCAAG TAAAATTAAA 60  
 ATAAAATTGG TTGCANNTT AAA 83

SEQ ID NO:7695

LENGTH:263

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08945

SEQUENCE DESCRIPTION:

GATCCCTTCC TCTGTCTCTC TAACTCCCCA GCCATGAATT TTGGCCCCAG GGAGAGGAAT 60  
 AGGCAGTATA GGAGGGATGT CAGGGAACTC ACATCTGTGG TTGAATCTCA GAAACAATGG 120  
 AAAGGCAGTT GTCTTTGGAT ATGGTGAAAT TGTGGTAGAG CACCCATGGT GGGGGTCTGG 180  
 CAGGAGCTCT GCGGCTTCGG TAGCAGCAGT ATGAGGAGAG CTGGGCCACA TGCTTATGGG 240  
 TTAGGAGAAG GTAATTTCCA GTN 263

SEQ ID NO:7696

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08946

SEQUENCE DESCRIPTION:

GATCATGGCT GAAAAAGCAG CAAATGCAGC AGGAAAAAG TTCCGAAAGA AGAAGAAATT 60  
 TCGCAATTAA GATTACCA GCAAACTGCA ACATTTTACA TTGCTCCTTT ATTTACTTAT 120  
 TAAAGACGTT TGGAAAACTA AA 142

SEQ ID NO:7697

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08947

SEQUENCE DESCRIPTION:

GATCAAGATT GAGAAGACTA GATACATAAC AACCAACTGC AATGTTTGGT CCTTCATTGA 60  
ATGGTTGAAC AAACCAGCTG TGAAAGACAT TTTGGGACAT ACAGACATGG ACTGAGAATT 120  
AGACATAAGA AAATTATTTT GTTAACTGTT ATCATGGTTA ACAAACGGT CATATAATNT 180  
GATTATGTAG AGAAGTTAAA 200

SEQ ID NO:7698

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08948

SEQUENCE DESCRIPTION:

GATCTGCCTG CCTCAGCCTC CCAAAGTGCT GGGNTTACAC GCGTGANCAC CACACCCAGC 60  
CTCCATCTTT AAACTTTTAA ATGTGAAATT TCTATCATGT ACCGTTAGCC TAACAAGATT 120  
TTNTTTCCTA TTTCTGACTG GTGCCTTTCC CCTTTT TAGG AGCAACGAAA GCTACTCTCT 180  
TAGTTATGTT CTTGTGATGT GACAAAATGT CAAGAAGATA GGAGAAGAGA ATATTTTATT 240  
TCGTTGATGC TTTTGTCCC AAGTGTGACC CTAACTTAA GCTTTGTAGG AGTTGACATT 300  
CTTTCATGTC CCTTCCCTTT ACTCATGCCG AAATATCAA CTGGGNCATG N 351

SEQ ID NO:7699

LENGTH:350

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08949

SEQUENCE DESCRIPTION:

GATCTGTTTC TGGGGCCTCT GCGGGTGGCG GCCTGGGGCG GCGCGACGGC TGGTGCGCAG 60  
GTACANTGAT GCTGAAGTAC TATGAGCCTT CGGAAGTGT GGAGAGACTA CAANGTTTGT 120  
GNNNTATGG TCCCTTTAGT TGGGCTCATA CATTTGGGGT GGTACAGAAT CAAAAGCAGC 180  
CCTGTTTTCC AAATACCTAA AAACGACGAC ATTCCTGAGC AAGATAGTCT GGGACTTTCA 240  
AATCTTCAGA AGAGCCAAAT CCAGGGGAAG TAGCAGGCTT GCAATCTTCA GGTAAGAAG 300  
CAGCTTTGAA TCTGAGCTTC ATATCGAAAG AAGAGATTGA AAAATACNN 350

SEQ ID NO:7700

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08950

SEQUENCE DESCRIPTION:

GATCCCGCCA GAAATGAATA GACACGCAA GAAACAAAGC TCGAGTGAAA GCTTGTTACA 60  
TAATGATTGG ACTCACAATT ATCGCCTGCT TTGCTGTGAT AGTGCAGCC AAAAGGGCTG 120



TAGAACGACA TGAATCCTTA ACAAGTTGGN NCTTGGCAAA GAAAGCTAAG NGGCGTGAAG 180  
AAGCTGCATT GGCTGCACAG GCTAAAGCTA AATGNTATTC TAAGTGACAA AGTGTTCACC 240  
TGAATACCAT CCCTGTCATC AGCAACAGTN GAAGATGGGA AAAATNGAAT ATTTACCAAA 300  
ATNTCTGCCA TGGTTTTATT TTGGTAACCN GATGCACAAT GTCTTTTTTT N 351

SEQ ID NO:7701

LENGTH:85

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08951

SEQUENCE DESCRIPTION:

GATCATATGT GAAGATGTCA ATTAAGCTTG CATTAAAGCCA CCTGCTTTGT AAGTGGATTG 60  
ATTAATAAAT AACTTATATT TCAAA 85

SEQ ID NO:7702

LENGTH:89

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08952

SEQUENCE DESCRIPTION:

GATCCCAGGG GCTTATCTCT TCAAGTGTGG AGAGGGCAGG GTCCACGCCT CTGCTGTAGC 60  
TTATGAAATN AACTAATTGA AAATTCAAA 89

SEQ ID NO:7703

LENGTH:375

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08953

SEQUENCE DESCRIPTION:

GATCCAGTGG CAATTGTAAA ACTAGCTATT TATGGCATGC TGCCAAAAAA CCTTCACAGA 60  
AGAACATTTN ATGGAAAGGT TGCATCTTTT TCCAGATGAG TATATTCCNN CNGATATTCT 120  
TAAGAATTTA GTAGAGGAGC TTCCTCAACC ACGAAAAATA CCTAAACGTC TAGATGAGTA 180  
CACACANGAA GAANTAGACG CCTTCCCAAG ATTTGTGGAC TCCACCTGGA AGATTATCGG 240  
CTATAAGAGA ATAAGATTTG CAGATAATTA ACAGTTGANG TGATTGAGAC TTTCTNCTTG 300  
ATGAGTTTCT CTAACCTNCA GGGTGGTGTT AACCAACTGC TACAGTTCAG CACCTGTTT 360  
TNTTGTGCCG NTTN 375

SEQ ID NO:7704

LENGTH:276

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08954

SEQUENCE DESCRIPTION:

GATCACATCC TACTTCCTCA ATGAAGGGTC CCAAGCCCGT CCCC GTTCTT CCCACCGATA 60  
TTTCTNGAA CGCGGCCTGG AGTCAGCAAC CAGCCTCTAG CAGCTGCCTC TACGCGCTCT 120

ACCTGCTTCC CCAACCCAGA CATTAAATT GTTTAAGGAG AACCACACGT AGGGGATGTA 180  
CTTTTGGGAC AGAAGCAAGG TGGGAGTGTG CTCTGCAGCC GNGTCCAGCT ACTTCCTTTT 240  
GGAACCTTTA AATAGAATGG GTGTTGGTTG ATTAATA 276

SEQ ID NO:7705

LENGTH:220

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08955

SEQUENCE DESCRIPTION:

GATCCACTGC CATTCTAATT GCTTTAACAA GTCATTACCA CACTACTGTT ACATCTTAAT 60  
TATGCATACA GACAGGTAGA CTTGTTTAC ATATGTGAAC TAACTAGTTG TCAAAGCAAA 120  
TGCAGATTGT ATTCTGCAAG TAAAGTCTTT TTCTCTCTGA AATTTCTAGG GATGTTCTTT 180  
AAGTGAAATT CATATTAAAA CTGAAGATT TNGTTACAAA 220

SEQ ID NO:7706

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08956

SEQUENCE DESCRIPTION:

GATCCAAAGT AACTNAAACA GGAGCCCACA AGACGGTCTG CCAGATTGTN AGCGAAACCT 60  
GCTCCACCAA AACCTGAACC CAAACCAAGA AAAACATCTG CTAAGAAAGA ACCTGGAGCA 120  
AAGATTAGCA GAGGTGCTAA AGGGAAGAAG GAGGAAAAGC AGGAAGCTGG AAAGGAAGGT 180  
ACTGCACCAT CTGNAAATGG TGAACTAAA GCTGAAGAGG CACAGAAAAC TTGNTTCTNG 240  
TNGATTAACG AN 252

SEQ ID NO:7707

LENGTH:166

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08957

SEQUENCE DESCRIPTION:

GATCTCCTGA CCTCAGGTGA TTCACCCACC TCAGCTTCCC AAAGTGCCGG GNTTACAAGC 60  
TTGAGCTACC GCGCCAGCC AACACATCAC TTTTATCTTG CAGCTCCCGA GATTCTCTTT 120  
TCTGTGACTN TAAAATTGT GCTNACATAT GTGTTTGATA TAAATN 166

SEQ ID NO:7708

LENGTH:52

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08958

SEQUENCE DESCRIPTION:

GATCAAAATA TTCTGGAAAA AAATAATAAA AAATAATTTG TATACATTGA AA

52

2153480

SEQ ID NO:7709

LENGTH:318

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08959

SEQUENCE DESCRIPTION:

GATCATACTN GTGATTATAA AAGNTCCTAG GAGGCTAGAA GAGCCAACCA ACAGAGAAGG 60  
GAAAGCAGTC TGTTCTGAAC ATAGGGACAT AAGTTCATTC ATGCCAAGTA TCTTCCAGC 120  
ATGTTTCTCC CATTTAGAAT ATCTAGCATN TAAGGCCTTT CAATATTAAT ATAAGCCCAA 180  
TATCAGCTCT TTCTCTNTGT ATTCATCTC TTTCTACTCT CCNATTTGTA TTTGGTGTTT 240  
CTNTTGAAAG TGTCGTATCT GGGAGATGAC CTGCCTTATC CTGTNCTATA ACAGTTTNTG 300  
NTTGCTGCTG TGTCTTTN 318

SEQ ID NO:7710

LENGTH:243

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08960

SEQUENCE DESCRIPTION:

GATCCAAGAA ATTACTGAAA TGGACAAGAA ATGTCATTAG TTAAAAGCCA TGTTATCTTG 60  
AGCACACATA CAGTTAATTT GATAAAGAAG AGTATGCCTC TCAGCATTGT GAGATATATT 120  
TCAGACTAAT TTGATGTTCT TTAATGTTCC CTTATTTTGG AAACACGTTT TAAATGTGAA 180  
ATTAATGTCC TTCACAAAAT GTCTTTTGAA AGCACTGTTA CAGTTGTATA AAGATGATGT 240  
AAA 243

SEQ ID NO:7711

LENGTH:122

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08961

SEQUENCE DESCRIPTION:

GATCTTGGCT TCTGAGGGCT CATTTGTAGA GTGGTGAGAA TAATATCTAA CTTGCTAATC 60  
TTTCAGAGAC ATTCTGAGAG ACATATGCAA AAGAACTTG TAAATAAAAA GCACTGTACA 120  
AA 122

SEQ ID NO:7712

LENGTH:240

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08962

SEQUENCE DESCRIPTION:

GATCCTTTAT TAAGCTTCTG ATTCATAAAA AAACCTATAA GAGACATTTG GGGGGATATT 60  
TGGGGAAATA GGAAGATGGA ATGGGTAGTA GATAATGTGG TATATTTNAT TTNCTAGAA 120  
GTGATAATTG AGTTACGTAG GATAATGTTT TAATCTTAG GAGATGCATG CAGAAGTTTT 180  
TTTTTTAAGT TTTGAAAAGN CATGATGTTG NCAGCATATT TNCAATAAN TATGTCCAAA 240

02174

2153480

SEQ ID NO:7713

LENGTH:110

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08963

SEQUENCE DESCRIPTION:

GATCTGTGTC CAAAAGTGAA CTTNAGTCAG GAATGAATCA ATTCAGCAT AAACAAGCAC 60  
AAAANTTTAG TCTGCTGGCT GACTGGAAGC AAAAAAGTCA AGATGGNNNN 110

SEQ ID NO:7714

LENGTH:111

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08964

SEQUENCE DESCRIPTION:

GATCTCAAAA CAATTGTTGC AGCAGGCTCC TGGCAGTCTC AAGCAGTTCA TCTTCTTGGT 60  
GTACTGGTTT CCTATTGTGA TTTTATCATG GAAAATCAAT TGGCTNNNNN N 111

SEQ ID NO:7715

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08965

SEQUENCE DESCRIPTION:

GATCCTATAG GCAGAGAGTT TTCCTTTCTG ACTTTTCCC TTTGCTTTG TGTGACCACA 60  
TGTTTCTGT ACCAGTCACT GGGGAAAGAA GTGAGTTTAT CTCGTTTGT TTTAAAGTTT 120  
TGCTTGCTA TTTAGCATT CTTTTGGGT CTCAAGATT ATGGAACAAT AAATGTCATT 180  
TAATGCTGTG TGCTATTTT GAATTCCTCA TCAGGTTTGA GAAGCGGGGT AAAAATACTT 240  
AGATGCTTAT CAGACTTGAA ATTATACTGA GTGGCATTGA ACGTGAGTT GTCCCAGTGA 300  
ACCAGGCTN 309

SEQ ID NO:7716

LENGTH:204

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08966

SEQUENCE DESCRIPTION:

GATCCATGAA GCCAGAGCCT GGCTCTGGGT GACAGCAGGA AACGGCTGGG GAAAAGNACA 60  
GCAGGGCGTC CAGCTGAGCC TGCCATTCCA GCCTGTTCTGG GGGAAACAGC TCCCAATCCT 120  
AGACTGTGCT GCTCCGGGAG GGCTGCTGGT GGATATTGG GCTGTTTTCA CCATATAGCT 180  
GTCATGAAAA ATGCTCCGT GAAA 204

SEQ ID NO:7717

LENGTH:121

02175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08967

SEQUENCE DESCRIPTION:

GATCTCAGGA ATACAGTCCC ATGCAAAGAT TCTCTGGTTT TATGGCTTTT TTCCCTTTCT 60  
 TTACACCATC CTCTCCCATG AGCACCCATG TTTTGAATA TGAATGTATT TGAAAAATAA 120  
 A 121

SEQ ID NO:7718

LENGTH:186

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08968

SEQUENCE DESCRIPTION:

GATCACCTGA GGTCCGGACT AAAAATACAA AAATNAGCTG GGCATGGTAG CCGGTNCCTG 60  
 TAATCCCAGC TATTNGGAA ACTNAGAACA AGAGACTTGC TTGACCCTGG GAGGTGAAGG 120  
 TTGCAGAGAG CCGAGGTAGT GCCACTCCAC TCCAGCCTGG NCGACAGAGT GAAACTCCGT 180  
 CTCAAA 186

SEQ ID NO:7719

LENGTH:351

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08969

SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTTTGGGA AAATGGAGTA GATATAGTTC TAGGTACTCC GGAAGACTA 60  
 GATGACTTGG TGCAACTGG AAAGCTGAAC TTATCTCAAG TTAGATTCCT GGTCTGGAT 120  
 GAAGCTGATG GGCTCTTTC TCAAGGTTAT TCTGATTTTA TAAATAGGAT GCACAATCAG 180  
 ATTCTCAGG TTACCTCTGA TGGAAAAAGA CTTCAGGTGA TTGTTTGCTC TGCCACTTTG 240  
 CATTCTNTCG ATGTAAAGAA ACTNTCCGAG AAGATAATGC ATTTCCCTAC ATGGGTTGAC 300  
 TTAAGGAG AAGGCTCTGT TTCCAGATTN CTGTACACCA TGTGTTNAA N 351

SEQ ID NO:7720

LENGTH:142

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08970

SEQUENCE DESCRIPTION:

GATCCCAAAG AAGTAACGGG AAAAAGGAAT GTAAGGCATC TCGATAATNT TTTCATATTG 60  
 ATTACATGTT GAAATANTAT TTTGTATNTA TTGAGTTAAG AAAAATATGT CATTAAAATT 120  
 AATNTACCT GTTCTTTTA AA 142

SEQ ID NO:7721

LENGTH:130

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08971

SEQUENCE DESCRIPTION:

GATCTTGGA ATCAAATTCA CAAACATCAG CTTGTTACAA ATCATNTAT TTATACCCTT 60  
TAAAGAGTGT GGATTTAAGA TTCTTGAAAG GATGTAGNCT ATATANTTC TCATTCCNTA 120  
TGGTGTAACN 130

SEQ ID NO:7722

LENGTH:180

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08972

SEQUENCE DESCRIPTION:

GATCGTTAAT TAATATCTTT CCATNCGAAG AGNAAGCAGA TTTCTTCTGA GATTCTGAA 60  
CAGTTCCTGG GTGTTTCCGG TTCTGCTTCA GTGTACTATC ACTTGCCTT GCCTCAGTCT 120  
CTCCTTCCTC CGGGGCCACA GAAGGAGAAA GCCCAAAGCA TACCCATCCT GCCCTTTAAA 180

SEQ ID NO:7723

LENGTH:266

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08973

SEQUENCE DESCRIPTION:

GATCACTGTC CCGNTTCAAA TTATTCTTCA GTCCATTTC CCGGCCTATT TCAGCTGTTC 60  
CTTTTCACCT AACTGTTNAG TCATTNNGGT TTTCAAGCAG TGCTTNATCT CATGTCCTTG 120  
AATATAGTTG TGTACTTTAT TNTNAGGTA ATAATTAGAA CAGTTCCTT CAGAGGCTGC 180  
ATTTGCCTTC TTCTGCCACC TAAATATTAC TTCCCTTCAA ATCNGCCTTT GAATCATCNN 240  
NTTTAAAAAA AANTTANCAT GNTTNN 266

SEQ ID NO:7724

LENGTH:33

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08974

SEQUENCE DESCRIPTION:

GATCAAAGGT ACCATGACCA AATAAGAAAC AAA 33

SEQ ID NO:7725

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08975

SEQUENCE DESCRIPTION:

GATCTTCTTT TTTNTTCTGG AGCCAGACTT NCTGGGCTTN NATTGCTGCT ATGCTACTTA 60  
CTTGGAATC TTGGACAAGT TACCTAATTT CTTGTTCTT AAGTTACTTC TGTTGTAAAA 120

TGATGTGGCC AATAAGTAGTG CCTATCTCAT AACATGGTTA TTAGAATTAA ACAAGTTAAT 180  
 ACTTTTAAAA TGCTTAGAAC AATTGTGGGT ACATACTAN 219

SEQ ID NO:7726

LENGTH:275

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08976

SEQUENCE DESCRIPTION:

GATCTGTCTG GNAACAGTTT ATGGAAATAT AGATATTCAT GCATCANATA AAAGTGCTGT 60  
 GACCATAGAT AAACGTCAGG GAAGTTCTGT NACTGTATCT ACCGAAGATG GTTTGCTGAA 120  
 AGCCAAGTAT CTTTATACAG AATCATCATT TCTGTCTTCT GCTGCTGGGG ATATTACATT 180  
 AGGAAGTGTT CATGGNAATA TAACATTACA AAGCAAGANG GGTAGCATCA CAGTNGATTG 240  
 GTCTTCTGGA TGTCTAAAAG CCTCAACTAA TCAGN 275

SEQ ID NO:7727

LENGTH:37

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08977

SEQUENCE DESCRIPTION:

GATCCCAGGT TCTCATGAAC CAAATAAGTA ACTTAAA 37

SEQ ID NO:7728

LENGTH:97

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08978

SEQUENCE DESCRIPTION:

GATCTGCCCC CCTNGGCCCTC CCAGAGTGCT GGGATTACAG GCATGAGCCA CTGCGCCCGG 60  
 NCTGTACTAA GTCTTTTTTT TTTAAATTTC CTCNAAA 97

SEQ ID NO:7729

LENGTH:284

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08979

SEQUENCE DESCRIPTION:

GATCTATGAA CTCTGCCCC ACATAACTTT TAAAGCAGTA TTTTATAAAC CCCATGAAGA 60  
 GCTTGCTTTT TTGTCTTTGT AATTCCTTAG GGTCTGTGAT ATATGCCAGG AAATCTGATT 120  
 GAAACTAATA TGCTTTTAT TCTCCCATTA TTCCCTAAAT NGTTATATCA CAGGCACTTG 180  
 CCTACATTGG GAAAGTAAGG ACAAATAATA CCCATTTAAA GTAACNGCC TATTATTNNG 240  
 ACTGTCTTTC GTAAGCACTT GCTGAACNGC TGACTTAACT CAGN 284

SEQ ID NO:7730

LENGTH:374

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08980

SEQUENCE DESCRIPTION:

```
GATCTCGCAA TGGGGAAGGC CCTGGTCGAC CAGAGGGAGC TGTACCTGGG CCTGCTCTAC 60
CCCACGGAGG ACTACAAGGT ATACGGCTAC GTCACCAACT CCAAGGTGAA GTTTGTCATG 120
GTGGTAGATT CCTCCAACAC AGCCCTTCGA GACAACGAAA TTCGCAGCAT NTTCCGGAAG 180
CTACACAACT CCTACACAGA CGTGATGTGC AACCCCTTCT ACAACCCGGG GGACCGTATC 240
CAGTCCAGGG CCTTTGATAA CATGGTGACG TCGATGATTG ATACAGGTTG TGCTGAGTGA 300
GCTGTGCTGC CAGCCATCGN AGAGGAGCCC NTNGCACGAC TTGTGGTGGG GTCCGTCGGT 360
CTTGTTTCTN TTTN 374
```

SEQ ID NO:7731

LENGTH:164

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08981

SEQUENCE DESCRIPTION:

```
GATCCGGTTG GACTCTGACA TCGGATGCCC TCAAACATAC AGAACTTCCA AACTCAAGTC 60
CAGCCATAAG CTATTTTGCC AACATGTCAG AGTAATCTGT ATTTTGTAT GTGATTTCTA 120
CTTTTATAGA CTTGTTTTAA AACAATAAAA CACATTTTAA TAAA 164
```

SEQ ID NO:7732

LENGTH:287

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08982

SEQUENCE DESCRIPTION:

```
GATCTTTCAT GAAAATTAAT TGTGCCCATG TCCAAGTTTG AATTAGAGAT ACACAGCACA 60
CAATCATTTT TGTTACCACT TTTGGAATAT CTAGCATTAG CCTTGATAGT TTTGTGTGGT 120
GTGTTTTGAG TATATCTGAN CTGTTAGTTA TATTTGGTTA ATTTATTAAA NGATGTGTGT 180
TAANCCTTAA TATTTATGCA GTGTTAAGT ATTTGGAATA TATTNGAAAT AAATTATCCA 240
GTGTTTTAGA TAAATGGTTA TTAAATTGCN NAANGTGATT CTCTAAA 287
```

SEQ ID NO:7733

LENGTH:173

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08983

SEQUENCE DESCRIPTION:

```
GATCTGTGCC GTTCAATAGG CATCGTCTCT CAGCCTGAGG GAGGCTGGAT TCTGGGTTC 60
TGTAATCACA GGGAGGAAAA GCTTTCTTAA AAATGGACAT GTATGTGCGT GTNAGTGTGT 120
GTGTAGATTT ATAGTTTTTG GTAGTGGCAG GAATAAAAAA AATCCATCCT AAA 173
```



2153480

SEQ ID NO:7734

LENGTH:198

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08984

SEQUENCE DESCRIPTION:

GATCTCTATT TTGTGCCAG ACTCTGAGCT GCTTTATGAA CACCTCAATT AAATNACTTC 60  
ATTGGAGTGA TTTAGTAAT CTATCTATAG TGTAATATTT TCTATGAATA ATTTCTGTGA 120  
ACCTTATTTT ATAAGTTAAT ATCTAAAAAG TGTTTATTTT CAAATTGCCA AATAAAAGGT 180  
TTTATATTAG TCATTAAA 198

SEQ ID NO:7735

LENGTH:94

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08985

SEQUENCE DESCRIPTION:

GATCTAGAGA CTCATTCAAT AGCAATGTGA CCTTTTAAAT ACTTACATTA AGTAAACTG 60  
CCAGTAGATT AAATCATATA TATATATATA TATN 94

SEQ ID NO:7736

LENGTH:363

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08986

SEQUENCE DESCRIPTION:

GATCACCTGN ACTCCAGCTC AGATTGCCTC TCCTGGACAT GGCAATGAAT GAGTTTTTAA 60  
AAAACAGTGT GGATGATGAT ATGCTNTTNT GAGCAAGCAA AAGCAGAAAC GTGAAGCCGT 120  
GATACAAATT GGTGAACAAA AAATGCCCAA GGCTTCTCAT GTCTTTATTC TGAAGAGCTT 180  
TAATATATAC TCTATGTAGT TTNNTAAGCA CTGTACGTAG AAGGCCTTAG GTGTTGCATG 240  
TCTATGCTTG TGGAACTTT CCAAATGTGT GTGTCTGCAT GTNTGTTTGT ACATAGAAGT 300  
CATAGATGCA GANGTGTTTC TNCTGGTACG ATTTGATTCC TGTGGGATG TTTAACTAA 360  
NAN 363

SEQ ID NO:7737

LENGTH:262

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08987

SEQUENCE DESCRIPTION:

GATCTTCTTT GATGATGAGA GGCGBAATAT TGTAACGTC AGCAAAGTGG GTGTTACCTG 60  
CATTCACATC CAGAATGGAA TGAATCTTCA AACTCTAAGT CAAGGGTTAG AGACATTTC 120  
AAAGGCCCAA ACTGGGCCTT TAAGGTCCAG CCTTGAGGAG AGCCCATTTN AGGCCTAAAC 180  
TGAAGGAAA TCAAGAAGGC ATTTTCAGGT GCATTTGTAA TTTATTAAAG TTCATCTGTG 240  
TGTGACAGAA AAAAAAGTA AA 262

02180

SEQ ID NO:7738

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08988

SEQUENCE DESCRIPTION:

```
GATCTGTGCC ACATGGAGGT TTTGGGATGG GATTNAAAG CTACCTGCAG TGCATCTTGG 60
GTGTTGACAA TATCANAGAT GTTATCCCTT TCCCAAGGTT TCCTCATTCA TGCCTTTNAT 120
AGCTGGAAGA TTGGTTAAGG CAAAGCACCC CCCATGGCAG AGACACTGCA CATGATTGTN 180
CATACAGCAG AATGCATGTT TGGATTNTAG AAATGCAGAT TTCAATATGT AATTGTTGTG 240
CCATAAGATA TCATAGNAAA NNTATAAGTG GTTGTNCTTT TCTTAGAAAG TTGAGGGTAT 300
TTCACGTAAG GATGAGCTCC CGCAAGNNGA GGTACTTNTT AGCANGGGA CTCTCAATCG 360
N 361
```

SEQ ID NO:7739

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08989

SEQUENCE DESCRIPTION:

```
GATCTTGATG TGGGTGATAG TTTTACTTAT GTACATCGAT ATACATCTAT TAAAAACAT 60
GTACATTTAA ATTGTTGCAT TTTATGTATT TAAAAATTAT TGAGTANTCC TTCTGTATGT 120
ATTATTAAAG AGAATATAGC AAA 143
```

SEQ ID NO:7740

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08990

SEQUENCE DESCRIPTION:

```
GATCATAGAG TTTGGCTGGG GAGGGGGGCA GTTTTAGAGG CTTCCACTTG GTGTTCTCA 60
GAATGATATC TCTTACTCCG GGGGCCAAGG TAGGGGTTAG CTTTGTCTCT CTTTGTAGTT 120
TAGATTGTAT CTCTTGCCCT GTTCAAGTTC ACAAATCTTT TTGTGTATAC ACATATGTAC 180
ATGAAATNA TGTTCATGCT TTTAATTATT TTACCCTTCA TTATTCATT TTTNATAGTT 240
CTCATAGCTA TGTCTTTCAG TTCATAATC TTTTTCAC AGTGTTTAAT CTGTCATTAA 300
ATCCCATCCA AAGTATGTTT TCTCTCAGAA GAN 333
```

SEQ ID NO:7741

LENGTH:135

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08991

SEQUENCE DESCRIPTION:

```
GATCCTTGTA CACTGTTTAT ATGTGCAATA AAATGCATGG CCAGCTGACA GTATCGTCAG 60
```

TGGACAGAAT GTATATAGTG CAAATATCCT TCCTTTTATT ATTTAACAGC CATTAAAATC 120  
 TTGGATTGTG ACAA 135

SEQ ID NO:7742

LENGTH:333

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08992

SEQUENCE DESCRIPTION:

GATCCCAGTT CACAATTATT CACCGGGTAT TTAGTTATTC ANAGGCTGCT CTGCTGAGAA 60  
 GNTGAACAAA TTTCTTGTCC AAAACAATGT ATTTCAAACG TGCCGCTCGG GCCTTTCCCG 120  
 TATTGCTCAC TGGTGCTGGG AAGACAACAC TTCTGAACTA TATTTTGACA GAGCAACATA 180  
 GTAAAAGAGT AGCGNNNNCT TTAAATGAAT TTGGGGAAGG AAGTGCGCTG GAGAAATCCT 240  
 TAGCTGTGAG CCAAGGTGGA GAGCTCTATG AAGAGTGGCT GGAAGTTAGA AACGGTTGCC 300  
 TCTGCTGTTC AGTGAAGTGA GGAATGTGTT TTN 333

SEQ ID NO:7743

LENGTH:219

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08993

SEQUENCE DESCRIPTION:

GATCCCACT GTATAACATT CTGAAAAAGG CACAACTATG GAGACAATAA AAAGAACAGA 60  
 GTTTTGGATG AAGGGAGGGA TGAACAGGCA GAATACAAAC AAATTTTAGG GCAGTGAAAC 120  
 TATTATTATG ATACTTTATG GATATAGAAT ATTATGCATT TTTCAAAACA CATAGAATAT 180  
 ACAACATGAA GAATGAATGC TAATGTAAAC TGGATTTN 219

SEQ ID NO:7744

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08994

SEQUENCE DESCRIPTION:

GATCTTGGGC CACACATGAA AATACACTAA CACTAATGAC AGCTGATGAG ATGCTTAA 59

SEQ ID NO:7745

LENGTH:353

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08995

SEQUENCE DESCRIPTION:

GATCAGAGTG ATGCTGGAAC TCAGTGTGCA TAAAATTTCA GTCAGTGAAT ATCACTGAAC 60  
 GTCATATACT ACTTGGTATG TGACTTTGGT TTGTGTTAAG AAAGCTTGTA TATAATATTT 120  
 TTNGCCATAG TAAGTGAGAA ATTGTCCTTA ATCATGCCTG TTTGATGGTA CTAGGAAAGA 180  
 AAGGGGTAGA GATTAATTCT TGCACAGTAT AAGCAACAGT GCAACAACT ATGCCATTN 240

CCTTTTNCCT CTTACTTGAA GGCAGAATCG CAAAACGTTT GANATGGCTT TCCTAAACTA 300  
CTCTACTCTG GTGNGAGCTC ATTTACCACA NGAAGCCTTA TAACACCGTT TNN 353

SEQ ID NO:7746

LENGTH:327

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08996

SEQUENCE DESCRIPTION:

GATCAGGTGA TTGCCTTTCT CAGCTGTCAG TTCTCTAATT TCAGGCTTGG TAGCTTGTAG 60  
GAACTGAAAT TGCAATTAAA ACCTTTATAA ACTCAAACTA AATCATGAAT TACAGAAAAA 120  
GTCCATTCTT CCAAACTTG ATGTTACCAC ACTTACAAGT TTAAAATATG AAGTCGACTG 180  
TTTAAAGGAT TCTGCATATA TTCTAGTGTG CACATTTCAG AACATTTTTC TTGGAAAAAG 240  
TACCCAACAT TTTTATAAC TGCACATATT AATTTATTGC CAGAATAAAT TGCATTGCAT 300  
GCTAAATTAA NGTCAGATAN TTCNAAA 327

SEQ ID NO:7747

LENGTH:153

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08997

SEQUENCE DESCRIPTION:

GATCATGTAA ACTTGCTGTT TTNGTTTTTN CCTGCCGGGT GTTGATGTG TGGTGACTTG 60  
CGGATTTATG TTTCAGTGTA CTGGAACTT TCCATTTTAT TCAAGAAATC TGTTTCATGTT 120  
AAAAGCCTTG ATTAAAGAGG AAGTTTTTAT AAA 153

SEQ ID NO:7748

LENGTH:41

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08998

SEQUENCE DESCRIPTION:

GATCTTAATT TTGTTTTTGG TTAAAAATAG TGTTTCCTTT N 41

SEQ ID NO:7749

LENGTH:299

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS08999

SEQUENCE DESCRIPTION:

GATCTATCTA AATGCCGATT TGAGTTCGCG AACTATGTGA CTGCGTTTTT AATTCCTGTA 60  
TTNANACTAT TTAATCCTTT CTAATTGTCG CTAAATATAA TTGTTTTAGT CTTATGGCAT 120  
GATGATAGCA TATGTGTTCA GGTTTATAGC TGTTGTGTTT AAAANTTGAA AAAAGTGGA 180  
ANCATCTTTG TNCATTTAAG TCTGTATTAT AATAAGCAAA ANGNTGTNT GTATGTNTGT 240  
TTNATATAAC ATGACAGGCA CTAGGACGTC TGCCTTTTTN NGGCAGTNCC GTTAAGGGN 299

SEQ ID NO:7750

LENGTH:169

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09000

SEQUENCE DESCRIPTION:

GATCAATTAG ACATTTTGAA AATAATTTAA AGTGTTCCTT TTAATGTTCT CTGAAAACAA 60  
GTTTCCTTTG TAGTTTAAAC CAAAAAGTG CCCTTTTGT CACTGGATC TCCTAGCATT 120  
CATGATTTTT TTTTCATACA ATGAATTAAA ATTGCTAAAA TCATGGAAA 169

SEQ ID NO:7751

LENGTH:53

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09001

SEQUENCE DESCRIPTION:

GATCATTTAA TGAATCCTCA AGGACTAATG AAATAAATGC TAGACTGCTG AAA 53

SEQ ID NO:7752

LENGTH:252

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09002

SEQUENCE DESCRIPTION:

GATCCTGAAA ATAAACTAA CACTCCAGTA TTTGTTCATT GTTTTTCGCA ATTGAGCTAT 60  
CTGAAACTG TTATTCCTAA GTAATGTTCA AAAATGATAA GTAATCTGGA TACCTTTTTC 120  
TTATACTTTC TCCTAGGAAA ACTTTAAAC TTAAAAAGG CAAACCTACC AATAGGAATA 180  
ACANATTAAG TGTCAAGAGA GTATATCCAA TATTAGGATA TAANTGTATG TGTCTCAAGT 240  
TTAACTCTAC AN 252

SEQ ID NO:7753

LENGTH:237

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09003

SEQUENCE DESCRIPTION:

GATCTACAAA AAATTCCTGG AGCCATATAT ATACCCTCTG GTNTCCCAT TCGCTAGTCG 60  
TATATNGCCT NAGAAAGCAA TACAAGAATC CAATAATACA ACAAAGGCA NAGTAACTT 120  
TAAGGGNGCA GACATGAATG GCTTACCAAC AAAAGGACCA NCAGAAATCT GTGATAAAAA 180  
GAAAGACTAA AGAAATTTTC CTAAAGGACC CCATCATTTA AAAANTGGNC CNGGNNN 237

SEQ ID NO:7754

LENGTH:264

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09004

SEQUENCE DESCRIPTION:

GATCTTCCCA AACCCAGAGA AAGACATCAA TTTCCAAGAA CAAGAAGGTT ATCAAACACC 60  
AGGCAGATTT AACCCAGAGG ATACTACCTC AAGGCATTTA ATAATCAAAC NNCCAAAAGT 120  
CAAGAATAAG GAAATAATCC TAAAAGCAGC AAGAGAAAAG AAACAANTAA TATACANTGG 180  
AGTTCCACTA TATCTGGCAG CAGACTCTTC ATTGGAAACC TTATAGGCCA GGNGNGAGTG 240  
GCATGACACA TTTAANGTAC TGGN 264

SEQ ID NO:7755

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09005

SEQUENCE DESCRIPTION:

GATCCAGAGC TGTTGCCTGT GACAGCGGTT TCTNTGGATG TCAAAGGCAG CTGCCTGGTT 60  
GCCCAGCTTG CTTCTCGACT GGTGGCCCTT ATGGGTGGGT GTGCGATGGA AATNTGTTCC 120  
TGCCGGAGTC TGAGGCACCA GGGTGTGCTC AAAGGCTGGC CCTGGTGGTG GACTGGCACC 180  
TGTGCAGAGT GCCGTGTGCT TGTGGTGC GC CATCTGAAGC AAGAGTCCAG CGTTCTGCCG 240  
TGTCTGTCCC CCACCATGCC CCCTACAGGC GGTACTGATG GCGCTN 286

SEQ ID NO:7756

LENGTH:382

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09006

SEQUENCE DESCRIPTION:

GATCCTTTTT CCTTCAGCAG CATTTCTTAC TGGCTGTGGC TGGAATCTGC CTTAATCAC 60  
AGTGTCACAC ATTCTCACGT GATTCTTGTG AGACTCTTTT TGGTTATAAT TACTATTAA 120  
TATTTAGACT ATTTACTGA GCAGACTTTA TAAATGAGAT ATCTACAAGG CACTTAAAGT 180  
GTTACAGATG TTTTACCTTA AGANTTATTT AAGTNGTGTT GGGTTAAGAC AGTTTTCACT 240  
GTACCGTAAA TGTTGTGTTT TCAGAAAAAG ACAAACGAT GGTGCTGACT GGTTTTCTGT 300  
ATATNGCACA ACAGTCCTCA AATACACTGG ATGTATGGAA CCTNTTCCTT NCATCCAGGC 360  
AGCATTTTTN TTNCNCTCTN CN 382

SEQ ID NO:7757

LENGTH:298

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09007

SEQUENCE DESCRIPTION:

GATCATCTTT GAGTAGCACT GTTTTGGGGC CCTCGGTCTC TCTGAAGACC CTAGCAGAAC 60  
TGATACCTAC CTGTATCTCT TGTTCTCTCC TATTTGAGTT TCACTTCCAG AGAACTTGTT 120  
CTTCAGCAAG AATGTGTCAC TAGTAAGGAC ATCTCTAGCA TTTCTCTAGC CTTCTTTTC 180  
TGCTGCTCAA AAATAATCGT TACAAAGCTT AGGTTTAAGC TGTATATGAA ATATTTATGC 240

GA CTCTCAAA CTTTAAAGGA GTTGCTCCTT TGTTCACAAA TTAAATGTGT TAGATAAA 298

SEQ ID NO:7758

LENGTH:292

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09008

SEQUENCE DESCRIPTION:

GATCATGGTC TTCAAAGATG TAAATACAAG AGAACCAAAG TTATCCGGG CAGTCCAGA 60  
TTCAGAACGT GTTATTCCTC CCAGAACGAC AACGCCATAT TTCCTTTGAG GCCTTCGCCC 120  
ATCCTGCTGA CCCATTTTNN TGCCCTCTTC TTACCCCAAT TTTNTGTAT TACCCTCTAC 180  
AATATACTTT TNATTGAGCA CTTTGCTGCT GAAATGCTGC CTCTTGCCTT TTTTTTTNA 240  
AATTTTAAAT TATCTAAATT TATGGTTTGT GGTGGTGTCT ATNGCAAAGT TN 292

SEQ ID NO:7759

LENGTH:307

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09009

SEQUENCE DESCRIPTION:

GATCTGTAA TGAAAAGTGC TGGAATACCT CAACCAAGAA AAGGCAGAAA AGGGAAGGGA 60  
GCATATTGCT AAGAGAGCAA TGGAAAATAT GTAAGCTGCT TTCATTAATT ACCCTACTTT 120  
CATTCTCCC ACCCAAGCA AATCCCAACA TTTCTCTTCA GTGTGTTGAC TTCTATCCTG 180  
TTAACTACTGT AATATCTTTA AATGATGTAC AGGCAGATGA AACCAGGTCA CTGGGGAGTC 240  
TGCTTCATTT CCTCTGAGCT GTTATCTTGT GTATGGATAT GTGTAAATGT NGGTGACTCC 300  
TTGATAN 307

SEQ ID NO:7760

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09010

SEQUENCE DESCRIPTION:

GATCTCTGAA CATGAAAACC AAGGTGGCTA TTTTCAGGTT GCTTTCAGCT CCAAGTAGAA 60  
ATAACCAGAA TTGGCTTACA TTAAAGAAAC TGCATCTAGA AATAAGTCCT AAGATACTAT 120  
TTCTATGGCT CAAAAATAAA AGGAACCCAG ATTTCTTTCC CTAAA 165

SEQ ID NO:7761

LENGTH:334

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09011

SEQUENCE DESCRIPTION:

GATCGATGAC GCAGGTCCTT CCAGTGAAAT GAATGGTCTC AAAAAATGGA GAGGATGTGC 60  
TGGGGATTGA GAAGGCAGGG TAGCCAGAAA GAAGCACAAA TTACCCCCAC CATAAGCTTC 120

ACAGAATTGC TGACGCTAAC GGCCATGGGT GAGATTTTGG CAATAAGTGT CAGCCTGATG 180  
ACAGATACCA CAGACAGTTG CAAAAATGTC CAAGTTTCTC CTGAAGTTTT CTGGCAGGGC 240  
AGTGGGGCTCC ATCCTTAGGA GTGAATCAGC TTTGGTGAGT ATCGTGATTG AACAGAGCCT 300  
TAACACCAGG GCCCCCTTAA CTCCGCACTC CTTN 334

SEQ ID NO:7762

LENGTH:247

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09012

SEQUENCE DESCRIPTION:

GATCGCTTGG ATTTTAAAGT TCATTGGAAC TACCAACTTG TTTCTAAAGA GCTATCTTAA 60  
GACCAATATC TCTTTGTTTT TAAACAAAAG ATATTATTN GTGTATGAAT CTAAATCAAG 120  
CCCATCTGTC ATTATGTTAC TGTCTTTTTT AATCATGTGG TTTTGTATAT TAATAATTGT 180  
NGACTTTCTT AGATTCACCT CCATATGTGA ATGTAAGCNC TTAATATGT CTCTTTGTAA 240  
TGTGTAN 247

SEQ ID NO:7763

LENGTH:312

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09013

SEQUENCE DESCRIPTION:

GATCCTTCCT GAGCGTTTCC TGGCAGTTTT AAAACGAAAA ATCAGTGTTA AGTTTGATGC 60  
AGTTATTGGA TATAAAATGA AAGCGCAATA AGCACCTAGT TTTCTGAAAA CTGATTTACC 120  
AGGTTTAGGT TGATGTCATC TAATAGTGCC AGAATTTTAA TGTTGANCT TCTGTTTTTT 180  
CTAATTATCC CCATTCTTC AATATCATTT TTGAGGCTTT GGCAGTCTTC ATTTACTACC 240  
ACTTGTCTT TAGCCAAAAG CTGATTACAT ATGATATAAA CAGAGAAATA CCTTTAGAGG 300  
TGACTTTAAG GN 312

SEQ ID NO:7764

LENGTH:93

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09014

SEQUENCE DESCRIPTION:

GATCTGCCTG TCCGGGCTGG GACAGAGACT CCCCAAGNAC CCCATTCTGC CTCCTTCTGG 60  
GGAAATAAAT AAGTGTCTGT TTCAGCAGCT AAA 93

SEQ ID NO:7765

LENGTH:133

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09015

SEQUENCE DESCRIPTION:



GATCTGGCTA AGCATCTTCC TCATGCTTTC AGTAAATTGG AAAACCCACG GAGGTAAAT 60  
 ATTACCTTTT TTTTTTAAA CTAAANCA TNCTGTTTAT TTTTNATTA CATTNCCCA 120  
 TATGNGNGGA ATN 133

SEQ ID NO:7766

LENGTH:300

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09016

SEQUENCE DESCRIPTION:

GATCGTNAAA ACCCCAAATG GACTTATTTT AAGTCACTTG CCAAATGGCC CAACTGCTCA 60  
 TTTTAAATN AGCAGNGTTC GTCTTCGTAA AGAAATTAAG AGAAGAGGCA AGGACCCAC 120  
 AGANCACATA CCTGAANTAA TTCTGAATAA TTTTACANCA CGGCTGGGTC ATTCANTTGG 180  
 NCGTATGTTT GCATCTCTCT TTCCTCATAA TCCTCAATTN NTCGGNAGGC AGGTTGCCAC 240  
 ATTCCACAAT CAACGGGATT ACATATTCTT CAGATTTTAC AGATACATAT TCAGGTGTGN 300

SEQ ID NO:7767

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09017

SEQUENCE DESCRIPTION:

GATCAAAGTA GCCACAACAT TCTCTTAAGC CAAAGNCCAA TCCAGAACAA NGCCCTAACT 60  
 CTCTTCAATT CTATGAAGAC TAAAAAGTA AGGAAGCTNC AGANN 105

SEQ ID NO:7768

LENGTH:216

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09018

SEQUENCE DESCRIPTION:

GATCGTCAAA CCATTCATCC TTTTAAAGGT TTATTTGAAG ATGCTGTAA AGTACAGAAT 60  
 TTTGTGTACA GGTAGATTTT TCCGTCCCTC ATTAATAGTG CCTTCTTAAT TAATACAGNC 120  
 TGGTGTAGC TATAACAAGG CNCCAGTAAG GCCAAAGAAT CCCAAGTTCT TTGTGGAAAA 180  
 ANAAAAAANN NCTTTTGGGG NCAGNTTTC CCTTCN 216

SEQ ID NO:7769

LENGTH:75

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09019

SEQUENCE DESCRIPTION:

GATCCTCCCG TGTGTGTTG GAAACTTTT GTTTTTTGGG GTTTTTTTT TCTGAATAAA 60  
 AAAGATNCTA CTAAT 75

SEQ ID NO:7770

LENGTH:341

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09020

SEQUENCE DESCRIPTION:

GATCTGTGTC TTAATTGTTT AGTTAGAGTG AGAAGTTGAC CTATGATTCTN TTTTAAATT 60  
 TTATATTTGG AACAAAGCTG CAAGTTATGG TAANGTACTG TACTGNGNGA NGTATTATGA 120  
 TATTTAATGC ATCTNTGGCT TAACACTTGT GAGAGTTACC AGCTTGAAAA TGATGGTGTT 180  
 GACTACCTCT TGANTCACAT CTATCAACCA CTGGCACCTA CCACCAAGCT GGCTTCAATT 240  
 AGTATGTGTT GCTTTTGGT ATTAACANCT AACCGTACTA GAGACCAAAG TGAACCTGA 300  
 TTTTAAATAT GTNTTAATA ATGGTGGTTT TATCTAGTGG N 341

SEQ ID NO:7771

LENGTH:238

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09021

SEQUENCE DESCRIPTION:

GATCCAAGCC TGGAGTTTGC AGAAGATACT GTCCTAATAA GCAGGCATTT CTAAACCAAG 60  
 TATCTAAGCC TAAGCACAGC TTGTCCTGGG TGAAATGTCT GCCACAAAAG ATAGTTTCTC 120  
 CTAGCTCAGA CTTAACCATT TATAAAGGTT GGTAATAAC TGGCAGTGAC AACAAATTGA 180  
 CTTTTAATT TTTTATTTG CATTATTCCA ATAAATGAAA ATCTGTCAGA GTTCTAAA 238

SEQ ID NO:7772

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09022

SEQUENCE DESCRIPTION:

GATCTGCCCC CACTGTCTTG TGAGGACAGC TGAGGCCAAG NAGTGAAAAA CCTATTACTA 60  
 CTAAGAGAAG GGGTGCAGAG TGTTTACCTG GTGCTCTCAA CAGGACTTAA CATCAACAGG 120  
 AAA 123

SEQ ID NO:7773

LENGTH:361

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09023

SEQUENCE DESCRIPTION:

GATCCAGGTA GAATTTTNA ACCAATCAAA TGAAAAAAC AAACAAACAA AAAAGGAAAT 60  
 GTCATGTGAG GTTAAACCAG TTGTCATTCC CCTAATGTGG AAAAAGTAAG AGGACTACTC 120  
 AGCACTGTTT GANGATTGCN TCTTCTACAG CTTCTGAGAA TTGTNTTATT TCACTTGCCA 180  
 AGTGAAGGAC CCCCTCCCCA ACATGCCCCA GCCCACCCT AAGCATGGTC CCTTGTACC 240  
 AGGCAACCAG GAACTGCTA CTTGTGNCC TCACCAGAGA CCAGGAGGGT TTGGTTAGCT 300

2153480

CACAGGACTT CCCCCACCCC AGANGNTTAG CATCCCATAC TAGACTCNTA CTCAACTTNN 360  
N 361

SEQ ID NO:7774

LENGTH:54

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09024

SEQUENCE DESCRIPTION:

GATCAAGCGA ACTAATTTTA GGTGAAATC CGAATAAAAG AACTTTACTG GAAA 54

SEQ ID NO:7775

LENGTH:188

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09025

SEQUENCE DESCRIPTION:

GATCTGTATA ATGTACATTC AATATAGAAA GCTTTATATA TTTAAAAGNG TATAGAACAT 60  
TTNACAATTA CACTCATCTT TAACATAACA TCTTGACATC CATTTTNAAA TTTTTTGCA 120  
CAAGCTCCTT TNCATTCAAT TTGGTAAAGC CAGTTATACA TACTANTGTG TACTGTGAGC 180  
TTTCAGAN 188

SEQ ID NO:7776

LENGTH:221

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09026

SEQUENCE DESCRIPTION:

GATCACCTGN AGGTCAGGAA GTTTGAAAAC CAGCCTGGCC AACATGGCAA AACCTGTCT 60  
CTACTAAAAC AAAAATNAGC CAGCATGATG GCAGGCGCCT GTAGTCCNNN CTATTCAGGA 120  
GGCTGAGGCA GGAGAATCGC TTGAAGTGGG AGAGGGGCAG AGGTTGCAGT GAGCTGAGAC 180  
TGCATTCCAG CCTGGGCGAC ACAGCAAGAG TCTGTCTCAA A 221

SEQ ID NO:7777

LENGTH:200

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09027

SEQUENCE DESCRIPTION:

GATCGTAGGA ATTGAAGGAG TGTCCCGCCT TGTGGCTGAN AACTGGACAG TGGCAGGGGC 60  
TGGAGATGGG TGTNTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGCGCG CGCGNCAGTA 120  
CAAGACCGAG ATTGAGGNAA ANCATGTCTT CTGGGTGTNA CCATGTTTCC TCTCAATAAA 180  
GTNCCCCTGT GACTCTCAAA 200

SEQ ID NO:7778

02190

LENGTH:286

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09028

SEQUENCE DESCRIPTION:

GATCCTGGTC CCCTCCCTGC TGGACCTGCC ACCCAGAGCT TCCTGNCTAG TCCCACTGGG 60  
 CTGGCCACCC AGGCCTCTGA CCCAGGCTGC TCTNCGGCCC CTTCCTCCTC CTNTTCCTGC 120  
 TCCAACCTCT GTCCACCTGG GGACAGTCTG TGCCTGTAGC CTNATGACCC CAACCCAGCC 180  
 CCAGGCATGG CTAACCCCTG ACTGNTTGCC TCATATTTAA GCTGCTGNTN TGGCCAAGTG 240  
 NCTAATTTTA ACCCAGACCT NAATAAAGAC ACNTNTTTGT ACCAAA 286

SEQ ID NO:7779

LENGTH:127

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09029

SEQUENCE DESCRIPTION:

GATCTGATTT TTCATAAAAA ACATTTGTGA ACCTTCGGCA TAAATGGGT AAGGTGCCAT 60  
 CCCTGAAACT GCAATGCAGA TATGTTCAAG TAACTTTNAT TTNTTAATTA AAAATAAATC 120  
 TTTCAA 127

SEQ ID NO:7780

LENGTH:105

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09030

SEQUENCE DESCRIPTION:

GATCTGANTT TTCATAAAAA ACATAAANTG ACCTTCGGCA TAAATAGGTT AAGAAGCCAT 60  
 CCCANAACT NCAATGCAGA TATGTTCAAG TAACTTTTAT TTTN 105

SEQ ID NO:7781

LENGTH:321

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09031

SEQUENCE DESCRIPTION:

GATCGGCGCC GTTACAGACG TGGCTACTAT GGAAGGCGCC GTGGCCCTCC CCGGAATNCT 60  
 GGTGAGATTG GAGAGATGAA GGATGGAGTC CCAGAGGGAG CACAANTNNN GGGACCGGTT 120  
 CATCGAAATC CAACTTACCG CCCAAGGTAC CGTAGCAGGG GACCTCCTCG CCCACGACCT 180  
 GCCCCAGCAG TTGGAGAGGC TGAAGATAAA GAAAATCAGC AAGCCACCAG TGGTCCAAAC 240  
 CAGCCGCTG TTCGCCGTGG ATACCGGCGT CCCTACAATT ACCGGCGTCG NCCGNTTCCT 300  
 CCTAACGGTN CTTACANGT N 321

SEQ ID NO:7782

LENGTH:66

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09032

SEQUENCE DESCRIPTION:

GATCCACTGA GTTAGTTTCA TTGGGGCGGG GGAAAGAACT GGAATTAAAC TTGTTTAATC 60  
CTTAAA 66

SEQ ID NO:7783

LENGTH:131

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09033

SEQUENCE DESCRIPTION:

GATCCTCCCA GCTGTCGGCC GCGGACCCGG GCCGCGTGTG AGCGGCTTTT GCACCTCCTA 60  
TCCCCAGGGT CCGCCGAGAG CCACGATTTT TTTACAGAAA ATNAGCAATA AAGAGATTTT 120  
GTACTGTCAA A 131

SEQ ID NO:7784

LENGTH:143

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09034

SEQUENCE DESCRIPTION:

GATCACAAAT GCATTTTCA ATCTTTACAA TATGAAATNT ATTTATAACT TTAGTTCCAA 60  
AATGGACTCT GTAATGCATT TGCCCATATT TTTAGTCGTA ATGGATGTGA TTATATTNA 120  
TTGAATTAAA AATCTAACAG AAA 143

SEQ ID NO:7785

LENGTH:345

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09035

SEQUENCE DESCRIPTION:

GATCTTAACT TTAATAAGGC AAAACAAAAG CTTCGAGCTG TTCCGTGTGT AAGTCTGTTG 60  
TGTGGATGTN CGTGTNTGGT CCCCAGCCCC AGACTGGATT GGAAAAGTGC ATGGTGGGGG 120  
CCTCGGGGCT GTCCCCACGC TGTCCTTTG CCACAAGTCT GTGGGGCAAG AGGCTGCAAT 180  
ATTCCGTCCT GGGTGTCTGG GCTGCTAACC TGGCCTGCTC AGGCTTCCCA CCCTGTGCGG 240  
GGCACANCCC CAGGAAGGGA CCCTGGACAC GGCTCCCACG TCCAGGNTTA AGGTGGATGC 300  
ANTTTCNGNA ACCTCCANTC TTCTGTGTAG CANCTTTAAC CNAGN 345

SEQ ID NO:7786

LENGTH:167

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09036

## SEQUENCE DESCRIPTION:

GATCAGCTCT CTGTGAAAAT GGACCAATCA TCAGGATGTG GGTGGGGCCA GATTAGGGAA 60  
TAGAAGCAGG CTGTCTGAGC CAACAGTGTC ANCATGCTTG GGTCCCCTTN CATGCTGTGG 120  
AAACTTTGTT CTTTCGCTCT TCACANTAAA TTTGCTGCT GCTCAAA 167

SEQ ID NO:7787

LENGTH:172

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09037

## SEQUENCE DESCRIPTION:

GATCCTGGAC AAAGCTTGGC TGCCGGCTTC ATTTATTCCT GCTGATGGCT GAGAAGCATC 60  
TGTTTTCCAT CCCACTTGCC TGTCCCAAGT TTTGTTCCAT TTTNAAAAA TTTGTTGTAA 120  
ACTGCATGTT TTATAAATA AAAATAAAAT ATCGTTTGTA ATTTATCTCA AA 172

SEQ ID NO:7788

LENGTH:255

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09038

## SEQUENCE DESCRIPTION:

GATCCGCCCA CCTTNGGCCT CCCAACACAA TTTATATTTT TGANGGTCCT TTTATGTGTA 60  
TTGTGCCATA TGCTTCTNAC ATCAGCCCCA ATAAATGCTT TAGGCGTTTT ATATTATCTA 120  
CCACTATTAC ATGCTCTCCA TCTCCAGACT ACCCATTCTT GCCATTGCCC TCATAGGGGC 180  
CCATTCTGAT AATTCTGGAT ATGTAGAAAA ATAAATCCTG TTTATGTGTT TAAATAAATA 240  
GATGTATACT ATAAA 255

SEQ ID NO:7789

LENGTH:256

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09039

## SEQUENCE DESCRIPTION:

GATCCCTGAC AGCAAAAAGT TTCTTTTCTG AGGCTGCCAT ACTGCCACTG TCCAGGTGGA 60  
GACTGAGCAA AGGAAGTCCT GGGCTGTGCC AGCTCCCAGA GCTTCGGAAG AAAGAGCAGC 120  
AGCTCTCTCC CTGGGAACCA TCAGAGAATT CTGTTGATGT GTTCTGTGTC TGTCTGTCAC 180  
CTGGTCACGA GCTTCTACCA CCTTTGCAAT TGTCATTAT CTTTCACTCC CTGAATAAAG 240  
TATCTATGCA TATAAA 256

SEQ ID NO:7790

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09040

## SEQUENCE DESCRIPTION:

GATCTCCAC CTTTCGGGCC ATGTTGCCCC CGTGAGCCAA TCCCTCACCT TCTGAGTACA 60  
 GAGTGTGGAC TCTGGTGCCT CCAGAGGGGC TCAGGTCACA TAAACTTTG TATATCAACG 120  
 AAA 123

SEQ ID NO:7791

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09041

SEQUENCE DESCRIPTION:

GATCTAGCTT CAGAGGAAGT CTACACCCCA TTCCCTTCTG CTTACAATGT ACCCATGATA 60  
 TGTGTTTAGC NNNGNAATAC TGTAACAGGA CATCACATGG AAAAATCAAA GCAGCTGGCT 120  
 CACTGTATTT AACTGAAAAG AATGCCTACA GATTGGATAT TTAATAGGGA AAATTAAGGC 180  
 ACTTTAATAA CANACTTCAT TATGTGAACT TGTTGAATAT TNNCATA CAN TATACCTTGT 240  
 ATATTANTGC CATAGTTTTT NGAAACACTA ATTTAAACAA CANATTTNAG GGGTGCTGGC 300  
 ATATCCAGN 310

SEQ ID NO:7792

LENGTH:61

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09042

SEQUENCE DESCRIPTION:

GATCCGAAGG CTGCGGGCAG CGTNTNATCC CGTGGTTTAA TAAAGCTGCC GCGCGCTCAA 60  
 A 61

SEQ ID NO:7793

LENGTH:310

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09043

SEQUENCE DESCRIPTION:

GATCTTGGTC TTATTTGCAC AGTTTTTGCG TCTTGTTTGC TTCTTGCATC TGATTAAC TA 60  
 GAATATTCT NTTTCCCCT TTAAATTGT GATGTCACCTT GACCCCATTT ATGTGTAGGA 120  
 GCACTACNCC ATTGGTTTCC AATACTGCAC ACATAAGATA CATACTTGTG TGCAGAAAGT 180  
 ATCTTCCTCC AGGCTTGTA TACCCTTCAC ATGGAAGATT AATGAGGGAA ATCTTTATAT 240  
 TCTGTATAAA ANCAAANGCA AATTTATATA CTAAAATCAT TTGTCTAAAA NTTTAAGTNG 300  
 TTTTCAAATN 310

SEQ ID NO:7794

LENGTH:165

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09044

SEQUENCE DESCRIPTION:

GATCAGTAGA AAATGGACAT CAAGTTTGAA CAGATAAATC ATGGACAGCC TTATTGTGAT 60  
 TGAATGCTT GTAGGTTCTG TGCCAATTTT CCACCACTGT GTACTTTGTT GCTATTAA 120  
 ACTGTATCAA CTCTAACGGA AGAATAAATT ATTTGTGATT TAAA 165

SEQ ID NO:7795

LENGTH:149

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09045

SEQUENCE DESCRIPTION:

GATCCGAGAG TNAAGGAAGT TCCCTGTNTT CCCCCTCCTT TTCCACCAGT NTCGCCTCTG 60  
 GCCTTCTCTG GCCACTCCTG GGAGGGACTG CCTCACCACC CCTGTCCCGC TGCCAGAAAT 120  
 ACACCCACAA TAAAAACCTG AAAACCAAA 149

SEQ ID NO:7796

LENGTH:98

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09046

SEQUENCE DESCRIPTION:

GATCCAAACT AACTGCCCAA GCACTACACA GCTGGACCCT GNTTCACCNT AACCCGCANC 60  
 TAGCAATCAA TACAGCTTCA TTATCTGAGT TGCATAAA 98

SEQ ID NO:7797

LENGTH:265

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09047

SEQUENCE DESCRIPTION:

GATCTNTAGC CTCACCTGN TCTCCTTCCT CCTACTGGCT GCTCAGGTGC TCCTGGTGGA 60  
 GGGGAAAAAA AAAGTGAAGA ATGGACTTCA CAGCAAAGTG GTCTCAGNNC AAAAGGNCAC 120  
 TCTGGGCAAC ACCCAGATTA AGCAGAAAAG CAGGCCCCGG ANCAANGGCA AGTTTGTCAC 180  
 CAAAGACCAA GCCAACTGCA GATGGGCTGC TACTGAGCAG GAGGAGGGCA TCTTTCTCAN 240  
 GGGNNGGGTG CACTCAATTG GNNNN 265

SEQ ID NO:7798

LENGTH:146

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09048

SEQUENCE DESCRIPTION:

GATCTTACCC GTGCNTGGNC CCCTCCCTC ANAGCCCATG GTAACGAACC CCTAGAAAGG 60  
 AGAGAACGGG CGTCAGGGGT GCACAGTCCA CAGCTGAAGA GCAAGGTTN GTGGCAGCAC 120  
 GGNCCGGCCC CTCACCTCT NTNCCN 146



SEQ ID NO:7799

LENGTH:317

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09049

SEQUENCE DESCRIPTION:

GATCTCCGA CCTCGGCTGC AGAGGCCATC GCAGCTTTN AAAAGTNAAG TGGTTAATTC 60  
CCATTGGTGT CTTTNCCTAT AGCATTTCN TCTAACCTAT AACAAGGGGG CATTACATT 120  
ANCTTTAGAA CATGTGAATA GGAGGTTNC TCATGACTTA CCATTCCAGC TGNATGGGAA 180  
AGCAAAGCAG AAAACAGTGC CCCAAATGGA AAANAGNTAC TCACACAGAN CAAAACAGTT 240  
CTNGGTCTTG TCCTGGTCT TGTCAAACCT TGCCTGATGC TCTTTCTAAN GTCNAAATAT 300  
GANTGATAAG CCNGGCN 317

SEQ ID NO:7800

LENGTH:372

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09050

SEQUENCE DESCRIPTION:

GATCTGGTTA AGTTGTGTAG TAAAGCATTG GGAGGGTCAT TCTTGTCACA AAAGTGCCAC 60  
TAAAACAGCC TCAGGAGAAT AAATGACTTG CTTTCTAAA TCTCAGGTTT ATCTGGGCTC 120  
TATCATATAG ACAGGCTTCT GATAGTTTGC AACTGTAAGC AGAAACCTAC ATATAGTTAA 180  
NATCCTGGNC TTTCTGGTA AACAGATTTT AANTTTCTGA TATAAANCAN GCCNCAGGAG 240  
AATTCGGGGA TTTNAGGTTT NCNGAATAGC CTATATATGG TGCATCGGNT AGGTCNTTAT 300  
TGATTTTTTG ACCCTTTTCG GCTTTACCTN ATGGGAAGAC CCNGTTCNTT TTAAATNAT 360  
CCNGGTTTTT GN 372

SEQ ID NO:7801

LENGTH:356

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09051

SEQUENCE DESCRIPTION:

GATCAACCTC TGAATTTTAC ATCATGAATG TAATCACCAC TGGAGCTTCA CTGTTACTAA 60  
ATTATTAATT TTTGCCCTCC AGTGTTCAT CTCTNAGGCT GAGCATTATA AGAAATNAC 120  
CTCTGCTCCT TTTCATTGCA GAAAATTGCC AGGGGCTTAT TTCAGAACAA CTCCACTTA 180  
CTTCCACTG GCTCTCAAC TCTCTAACTT ATAAGTNTTG TGAACCCCA CCCAGGCAGT 240  
ATCCATGAAA GCACAAGTGA CTAGTCCTAT GATGTACAAA GCCTGTATCT CTGTGATGAT 300  
TTCTGTGCTC TTCACTCTT GCAATTGCTA AATAAGCAG ATTTTATAAA TACAAA 356

SEQ ID NO:7802

LENGTH:359

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09052

## SEQUENCE DESCRIPTION:

GATCAAGCAG ATTCCACGAA TCCTCGGCC AGGTTTAAAT AAGGCAGGAA AGTTCCTTC 60  
 CCTGCTCACA CACAACGAAA ACATGGTGGC CAAAGTGGAT GAGGTGAAGT CCACAATCAA 120  
 GTTCCAAATG AAGAAGGTGT TATGTCTGGC TGTAGCTGTT GGTCACGTGA AGATGCCNGA 180  
 CGATGAGCTT GTGTATAACA TTCACCTGGC TGTCAACTTC TTGGTGTCAT TGCTCAAGAA 240  
 AANCTGGCAG ANTGTTCCGG GGCCTTATNT TNTCAAGAGC ACCNTGGGGN AAAGCCCCCA 300  
 GNGGCCTNTT NTTAAGGGCA CCGTTTNGAN NTAAAATTC TNGTTANCCC AGTCNAAA 359

SEQ ID NO:7803

LENGTH:134

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09053

## SEQUENCE DESCRIPTION:

GATCCGGCCA GTTCATTGAA CAAACCTTTC CTTTTCTAA AGTTCAGAA GCCTTCCTGA 60  
 AGGTGGAAG AGGACACGCA CGAGGAAAGA CTGTAATTA TGTGTTTAA ATAAAAATGC 120  
 AGTTTAGTGA TAAA 134

SEQ ID NO:7804

LENGTH:62

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09054

## SEQUENCE DESCRIPTION:

GATCTACTGA CATTAGCAC TTTGTACAGT AAAAAATAAA GTCTACATT GTTTAAACA 60  
 AA 62

SEQ ID NO:7805

LENGTH:120

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09055

## SEQUENCE DESCRIPTION:

GATCTGGATG ATGGTATGT AGCTGCATAT ATTTGTCAAC ATTCCTCATG CTGTATGTT 60  
 AGATTGTGA TTTTACTATA TGTAATTA TCCCTTAATA AAATACTATT ATAAAAATAA 120

SEQ ID NO:7806

LENGTH:209

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09056

## SEQUENCE DESCRIPTION:

GATCTAATCT TCTGTGCTCT GTGTATTGGC GACGAGCAGG GTGAGAATAA GTGCGTGCCC 60  
 AACAGCAATN AGAGATACTA CGGCTACACT GGGGCTTTCC GGTGCCTGGC TGAGAATGCT 120  
 GGAGACGTTG CATTTGTGAA AGATGTCACT GTCTTGCAAG AACTGATGC CCTCCTGGAA 180

GCCTGTGAAT TCCTCAGGAA GTAAAACCN

209

SEQ ID NO:7807

LENGTH:59

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09057

SEQUENCE DESCRIPTION:

GATCTTAATT TAAAAATTA AAACCTGGNG TTTTAAAT AAAACCTTT TGTCTAAA 59

SEQ ID NO:7808

LENGTH:100

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09058

SEQUENCE DESCRIPTION:

GATCAAAGTA ATTGCTTAAA TGTCTGTGG AATNAGCTGT CACTTTATAG TTTATGTATT 60  
GTGGTGGGTA CCTTAATAAT AAAAAGATT TTAATGTAAA 100

SEQ ID NO:7809

LENGTH:118

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09059

SEQUENCE DESCRIPTION:

GATCTGTTTG ATGGTTACAT CAGTGTATAT TTGTCAAAAT TCCTCAAACT GTATGCTTAA 60  
GGCTTTGTGC ATTGTATTGC ATGTAAATNA TACTTCAATA AAGTACCAAT AGCATAAA 118

SEQ ID NO:7810

LENGTH:183

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09060

SEQUENCE DESCRIPTION:

GATCCATAAC CTCTTTAGAG ACCGGCTCCT GGATGCAGAA TCCTATGAGG TTCTGGCCAC 60  
ACCTGTTTCT TGCCNTCAG GGGCTGACAC CCATGTNCCA TCCCTCTAAA CCCCTGTCCC 120  
TAAACCTACC CCATCTNATG TAACTCTGGG GTTCCTTGGT CATTAGAGGG TTTNAGGTC 180  
AAA 183

SEQ ID NO:7811

LENGTH:175

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09061

SEQUENCE DESCRIPTION:

GATCTGAATG GTTTTAATAA GTGTCTGGNA ATTCCCCTGC TTGCACTTGT NTNTCTCGCC 60  
CACCACCACG TAAGACGTGC CTGCTTCCCC TTCTGCCATG ATTGTAAGTT TCCTGAGGCG 120  
TCCCCAGCCA TGCAGAACTG TGAGTCAATG AAACCTCTTT TTTTATAAA TAAA 175

SEQ ID NO:7812

LENGTH:329

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09062

SEQUENCE DESCRIPTION:

GATCCCCAT TCCCCACCCT GGGAGATGAG GGGGTCCCCA TGTGCTTTTC CAGTTCTTCT 60  
GGAATTGGGG GACCNCCGCC AAAGACTGAG CCCCTGTNT CCTCCATCAT TTGGTTTCCT 120  
CTTGGCTTTG GGGATACTTC TAAATTTTGG GAGCTCCTCC ATCTCCAATG GCTGGGATT 180  
GTGGCAGGGA TTCCACTCAG AACCTCTCTG GAATTGTGTC CTGATGTGCC TTCCACTGGA 240  
TTTTGGGGTT CCCAGCACCC CATGTGGATT TTGGGGGGTC CCTTTGTGT CTCCCCGCC 300  
ATTCAAGGAC TCCTNTCTTT TTTCAANN 329

SEQ ID NO:7813

LENGTH:326

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09063

SEQUENCE DESCRIPTION:

GATCTGCCAG CCCTACATCC GGCCGGGGCC CAGGGAGGGG AGCAAGGAGA AGGCAGGTGC 60  
GCGCANAAGC GGGCCCTGGA GGAAGAGGAG GGTGGCACGG AGGTCCTGTC CAAGAACAAG 120  
CAAAAGAAGC AGCTGAGGAA CCCCCACAAG ACCTTCGACC CCTCTTTGAA GCCAAAATAT 180  
GCAAAAGTNG ACCAGTGTGG AAACCCAAAG GGCAACAGAT GTNTGTTTCA CCTGTGCCGN 240  
GGTGCTGCA NGANGCGNGC CTTCAAAGNG ACTGCAGACT GNCCAGGTNA CGGTTTGCTT 300  
TTTAAACCA ATTNNGGAGA AGTTN 326

SEQ ID NO:7814

LENGTH:20

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09064

SEQUENCE DESCRIPTION:

GATCGGAATG NAAATCTAAA

20

SEQ ID NO:7815

LENGTH:248

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09065

SEQUENCE DESCRIPTION:

GATCAATGTT GAAAGTGTG TTATATGGCA AGTNTTTAAC ACATTCACAG TGTGTGTTG 60

ATTCAACTG TGAATTGTCT TACAGTTTTT TCAAACCTAG TTGTTTCTAT GGACACCTGC 120  
TCTGAATTGT ACATTGACTN CATTACTAAA GAACAAAAAT GTTCATTTTT GTCCCAGTAA 180  
ATTGAGACTG CTTGTACACT TTCAGAAAAA TATGTGAATT TATAAAGNTT TTGTAGATAC 240  
TTGTCAAA 248

SEQ ID NO:7816

LENGTH:87

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09066

SEQUENCE DESCRIPTION:

GATCCCCGGA TTNACACTC CTTCTGTTTT GTTGCCGTTT ATTTTGTAC TCAAATCTCT 60  
ACATGGAGAT AAATNATTTA AACCAAA 87

SEQ ID NO:7817

LENGTH:267

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09067

SEQUENCE DESCRIPTION:

GATCCACCTG NCCCTGACCT CCGACAGTGC TGGGATTACA GGCATAGCCA CCGTGCCTGA 60  
CCAGGGCTCT TTTAGCAAGG AAAACGTGAG GAATGAATGG CTGTTGGTGT GCAACAAATC 120  
ATACTTGCTA CATGTTGTGA ACCTGAAGTT ATTTGTTAGT CTGTATGAAG AATGTACCCC 180  
AGAGATGCAC CCTGTATCTG CCTTATGTCT CTTACAATGG AGGTTCTCTC CTGTTATATT 240  
GCTGAATAAA CTATGTGAAC TGCTAAA 267

SEQ ID NO:7818

LENGTH:22

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09068

SEQUENCE DESCRIPTION:

GATCTTCAAG CAAGAAAATA AA 22

SEQ ID NO:7819

LENGTH:90

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09069

SEQUENCE DESCRIPTION:

GATCATAGCT GAAAATTAAT GATACTGTCA ATTTGAGATA GCAGAAGTTT CACACATCAA 60  
AGTAAAAGAT TTGCATATCA TTATACTAAA 90

SEQ ID NO:7820

LENGTH:25

TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09070  
SEQUENCE DESCRIPTION:  
GATCATTAAA AAATTAATAA AGAAA

25

SEQ ID NO:7821  
LENGTH:33  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09071  
SEQUENCE DESCRIPTION:  
GATCCCAATG AAACGAATTC TGTCTCCCTG AAA

33

SEQ ID NO:7822  
LENGTH:23  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09072  
SEQUENCE DESCRIPTION:  
GATCTTCAAG CAAGTTAANT AAA

23

SEQ ID NO:7823  
LENGTH:75  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09073  
SEQUENCE DESCRIPTION:  
GATCTTCATT TAGCTCCTTT ACTGGGATTT ATTGGATGCT NGTAAAAAAA TAAAATTTAC 60  
ACTGTNTATG CGAAA 75

SEQ ID NO:7824  
LENGTH:284  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09074  
SEQUENCE DESCRIPTION:  
GATCAAGAAA GGGCTGTGGC TTGTATCAAA GGGTGTTTAA AAGGATTTAC TATCAGATTT 60  
GGCCTTGTTT TCTGTGATTT TGGNNAGCGT TCAAGGAAGC CAGGCTTTGG TCTGGATTGG 120  
ATGTTCTCAG GTCATGAATA TAATTCTCTG GGAAGTCCCA AAGTTCTCAT CTACAAAGCA 180  
GAAGTTAATT GGAGCTGAAA ACTAATCAGT AAAGCCACAG CAGCCAGTCA TATGGGGGAG 240  
AAGAGGGGAA TGTGTTGATGG TTTTGTGGT TTAGAGGTGA GTTN 284

SEQ ID NO:7825  
LENGTH:21

TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09075  
SEQUENCE DESCRIPTION:  
GATCCTTTGT TAACAAATAA A

21

SEQ ID NO:7826  
LENGTH:159  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09076  
SEQUENCE DESCRIPTION:  
GATCATATTT ATTTAACTA TTTTTTTAGA AAATTATTAA TTTTAATTGT ATTTTGTAT 60  
TTAAAAAGCT TCTTCACTTG TTTCCCTAA NNNTTCANAT TGCTGCCCAA AAGTATGACT 120  
GTGGAGGAAA AAAAANTACT TNAANTCC ACACTTTNN 159

SEQ ID NO:7827  
LENGTH:328  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09077  
SEQUENCE DESCRIPTION:  
GATCTGTGCA GGGTATTAACT GTGTCAGGGC TGAGTGTCT GGGATTCTC TAGAGGCTGG 60  
CAAGAACCAG TTGTTTGTG TCGCGGTCT GTCAGGGTG GAAAGTCCAA GCCGTAGACC 120  
CAGTTTCCTT TCTNAGCTGA TGTCTTTGGC CAGAACACCG TGGGCTGTTA CTTNCNTTNA 180  
GTTGGAAGCG GTTGCATT ACGCCTGTAA ATGTATTCAN TCTTAANTTA TGTAAGGTNT 240  
TTNTGTACG CAATTCTCGG TTCTTTGANG NGATGGCAAC AAATTTTGGG NTTCTACTGT 300  
TATGTTGGGG NNCATTNGGG CCCANGNN 328

SEQ ID NO:7828  
LENGTH:108  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09078  
SEQUENCE DESCRIPTION:  
GATCTCCTGA CCTCGTCATC CGCCCGTNTC GGCCTCCCAT AGTGCTGGGN TTACAGGCAT 60  
GAGCCACCAC GCCCGGCTGT TTTATTTCTT ATAAGTGTAC AGGANNNN 108

SEQ ID NO:7829  
LENGTH:277  
TYPE:nucleic acid  
TOPOLOGY:linear  
CLONE:HUMGS09079  
SEQUENCE DESCRIPTION:  
GATCATGAAG CCATCAGCTC CTCTGGGGCC AGCTANAGGA CAACAGAACT NTCACCAAAG 60

GACCAGACAC AGTGAGCACC ATGGGACAGT NTCGGTCAGC CAACGCAGAG GATGCTCAGG 120  
AATTCANTGA TGTGGNGAGG GCCATTGAGA CCCTCATCAA GAACTTTCAC CAGTACTCCG 180  
TGGAGGGTGG GNAGGNGACG CTGACCCCTT CTAAGCTACG GGACCNGGGT CACCCAGCAG 240  
CTGCCCCATN TTNATGCCGA GCAACTTNTN GNCTGGN 277

SEQ ID NO:7830

LENGTH:123

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09080

SEQUENCE DESCRIPTION:

GATCAGACCA AACAGTGCTG TTTCCCGGGG AGGAAACACT TTTTAAATTA CCCTTTTGCA 60  
GGCTCCCACC TTTAATCTGT TTTATACCTT GCTTATTAAT TGAGCGACTT AAAATNATTG 120  
AAA 123

SEQ ID NO:7831

LENGTH:338

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09081

SEQUENCE DESCRIPTION:

GATCCAGAAA TGGAGACTGG ACCTTCCAGA CCCTGGTGAA TGCTGGAAC AGTTCCTCGG 60  
AGTGGAGAGG TTTACACCTG CCAAGTGGAG CACCCAAGCC TGACGAGCCC TCTNACAGTG 120  
GAATGGAGAG CACGGTCTGA ATCTNCACAG AGCAAGATGC TGAGTGGAGT CGGGGGCTTC 180  
GTGCTGGGCC TGCTCTTCCT TGGGGCCGGG CTGTTTCATCT ACTTCAGGAA TCAGAAAGGA 240  
CACTCTGGAC TTCAGCCAAC AGGATTCTCTG AGCTGAAGTG AAGATGNCCA CATTCAAGGA 300  
AGAACCTTCT GCCCAGCTT TGCAGGATGA ANCACTTN 338

SEQ ID NO:7832

LENGTH:309

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09082

SEQUENCE DESCRIPTION:

GATCTAATCT CAAATACAGT GCTTAGTAAG GGAACCTTG TGCCTTTGGG GATTGAGGA 60  
TTAAACGAA TCTTTTAAAT ATATTCCAA ATATTAAAT ATAAAGGAT ATTCCTCTG 120  
ATGTTAAAG TGAGTATGGG GGTGGCACAT TATATGGAAA GTNCCATGTT TGCTTAANTG 180  
CTATGTAAAA TAACTTGGCA TATTANTGA CTTTGANTGT GAAANTCATA TGCCCTTNGA 240  
NTATGGNTGC CTTAGCTCAT TTGACANCTG GNAGANTACT TGTNTATCTN GTTTNAGACA 300  
CATTGANTN 309

SEQ ID NO:7833

LENGTH:233

TYPE:nucleic acid

TOPOLOGY:linear



CLONE:HUMGS09083

## SEQUENCE DESCRIPTION:

GATCCAAAGT GGCAGGAGGT CTGTGTTGTC ATGGNGAACT GGAGTTTCTC TTGTAAGAGT 60  
 TCCCTCATCT GAAATCATGT ATCTNTCTCA CAAATACAAG CATAAGTAGA AGATTGTGTTG 120  
 AAGACATAGA ACCCTTATAA AGAATTATTA ACCTTTATAA NCATTTAANG TCTTGTNAGC 180  
 ACCTGGGAAT TAGTATAATN CCANTGTAA TTTTTNNAT TTACATTTTG TNN 233

SEQ ID NO:7834

LENGTH:99

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09084

## SEQUENCE DESCRIPTION:

GATCGGAATT TNACAGAATT GGGACTGTGG AACCNNGGGT CACTTGAATT TCCTATATTT 60  
 TGTATGGCCA AATCAGGAAC CAGACAGTCT CCATAGTCN 99

SEQ ID NO:7835

LENGTH:288

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09085

## SEQUENCE DESCRIPTION:

GATCAGCCGA TGACAGAGAT TGTAAAGCCGT GTGTCGAAGC GAAACTGGNG CCGCCACGTG 60  
 CGGGCNCCTGG TGCTTGACCT GTGCTGTAAC GACGAGAGCG GCGAGGATGT CGNGGGGCNA 120  
 NAAAAACGGT ACACCATCCG CTGACCCCGT CTGCTCCTCT AGGCTGGCCC CTTGTCCACC 180  
 CCTCTCCACA CCCCTTCCAG CCCAGGGTTC CCATTTGGCT TCTGGCAGTG GCCCAACTAG 240  
 CCAAGTCTGG TGTTCCTCA TNATCCCNCT TACCTGAACC CNTNTTGN 288

SEQ ID NO:7836

LENGTH:32

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09086

## SEQUENCE DESCRIPTION:

GATCTAAATA AAATGGACNG TTCTACCTTA AA 32

SEQ ID NO:7837

LENGTH:152

TYPE:nucleic acid

TOPOLOGY:linear

CLONE:HUMGS09087

## SEQUENCE DESCRIPTION:

GATCTGAAAC AGATGAAAGT TATAATAGTT TACATACCTT ACCTTAAAGT ATGGTTTTTA 60  
 AATACTTAAG ATGTGATATG ACATATAGTG TGTATATATA TCTNATNCTA NNGGAAAAAG 120  
 GGACATTAAA AAAGCTTATG TTAAGATA AA 152

2153480

SEQ ID NO:7838

LENGTH:108

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

GATCGTTCTT CATGGGGGTA AGAAAAGCTG GTCTGGAGTT GCTGAATGTT GCATTAATTG 60  
TCCTGTTTGC TTGTAGTTGA ATAAAAATAG AAACCTGAAT GAAGGAAA 108

SEQ ID NO:7839

LENGTH:30

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TGAAAATTTA TTACTACAGT GTTTTCACCA 30

SEQ ID NO:7840

LENGTH:20

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

TAATACGACT CACTATAGGG 20

02205

2153480

SEQ ID NO:7841  
LENGTH:25  
TYPE:nucleic acid  
STRANDEDNESS:single  
TOPOLOGY:linear  
SEQUENCE DESCRIPTION:  
CTTCTTTCTG TAGCCAGGTA ACTCT

25

SEQ ID NO:7842  
LENGTH:25  
TYPE:nucleic acid  
STRANDEDNESS:single  
TOPOLOGY:linear  
SEQUENCE DESCRIPTION:  
TTTTCGGCGC TCCCATTTAT TCCTT

25

SEQ ID NO:7843  
LENGTH:35  
TYPE:nucleic acid  
STRANDEDNESS:single  
TOPOLOGY:linear  
SEQUENCE DESCRIPTION:  
CACGAATTCA CTATCGATTC TGGAACCTTC AGAGG- NH2

35

02206

2153480

SEQ ID NO:7844

LENGTH:37

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTCGCTCGCC CATCCTTATA CAGGCTCAGT TTTGTCT

37

SEQ ID NO:7845

LENGTH:37

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTCGCTCGCC CATGTATAGG GACAGCATTT CTGAGAG

37

SEQ ID NO:7846

LENGTH:38

TYPE:nucleic acid

STRANDEDNESS:single

TOPOLOGY:linear

SEQUENCE DESCRIPTION:

CTGGTTCGGC CCACCTCTGA AGGTTCCAGA ATCGATAG

38

02207

2153480

SEQ ID NO:7847  
LENGTH:22  
TYPE:nucleic acid  
STRANDEDNESS:single  
TOPOLOGY:linear  
SEQUENCE DESCRIPTION:  
CCAGGGTTTT CCCAGTCACG AC

22

SEQ ID NO:7848  
LENGTH:22  
TYPE:nucleic acid  
STRANDEDNESS:single  
TOPOLOGY:linear  
SEQUENCE DESCRIPTION:  
TCACACAGGA AACAGCTATG AC

22

02208

## DEMANDES OU BREVETS VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET  
COMPREND PLUS D'UN TOME.

CECI EST LE TOME \_\_\_\_\_ DE \_\_\_\_\_

NOTE: Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

2153480

## JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE  
THAN ONE VOLUME

THIS IS VOLUME 8 OF 8

NOTE: For additional volumes please contact the Canadian Patent Office

Claims as amended under Article 19 of the PCT

1. A purified single-stranded DNA comprising any of the nucleotide sequences listed under SEQ ID NO 1 - 7837.
2. A purified single-stranded DNA complementary to a DNA according to Claim 1.
3. A purified double-stranded DNA consisting of a DNA according to Claim 1 and a DNA according to Claim 2.
4. A purified single-stranded DNA comprising a portion of any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.
5. A purified single-stranded DNA complementary to a DNA according to Claim 4.
6. A purified double-stranded DNA consisting of a DNA according to Claim 4 and a DNA according to Claim 5.
7. A purified single-stranded DNA complementary to a human mRNA containing any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 (wherein T is read as U) at its 3' region.
8. A purified single-stranded DNA complementary to a DNA according to Claim 7.
9. A purified double-stranded DNA consisting of a DNA according to Claim 7 and a DNA according to Claim 8.
10. A purified single-stranded DNA complementary to a portion of a human mRNA containing any of the nucleotide sequences listed under SEQ ID NO 1 - 7837 (wherein T is read as U) at its 3' region.

11. A purified single-stranded DNA complementary to a DNA according to Claim 10.
12. A purified double-stranded DNA consisting of a DNA according to Claim 10 and a DNA according to Claim 11.
13. A DNA probe consisting of a DNA according to Claim 1.
14. A DNA probe consisting of a DNA according to Claim 2.
15. A DNA probe consisting of a DNA according to Claim 4.
16. A DNA probe consisting of a DNA according to Claim 5.
17. A DNA probe consisting of a DNA according to Claim 7.
18. A DNA probe consisting of a DNA according to Claim 8.
19. A DNA probe consisting of a DNA according to Claim 10.
20. A DNA probe consisting of a DNA according to Claim 11.
21. A DNA primer consisting of a DNA according to Claim 1.
22. A DNA primer consisting of a DNA according to Claim 2.
23. A DNA primer consisting of a DNA according to Claim 4.
24. A DNA primer consisting of a DNA according to Claim 5.
25. A DNA primer consisting of a DNA according to Claim 7.
26. A DNA primer consisting of a DNA according to Claim 8.
27. A DNA primer consisting of a DNA according to Claim 10.
28. A DNA primer consisting of a DNA according to Claim 11.



**Abstract**

3'-directed cDNA libraries which faithfully represent the relative concentrations of cellular mRNA species were prepared from various human tissues and the sequences of the cDNA species contained in the libraries were determined. The frequency of appearance was then determined for each cDNA species with respect to each of the tissues studied. Since the identified cDNA species has attached information on the expression level of the gene as represented by the relative concentration of mRNA, it can be used as a probe or a primer to detect cellular abnormalities and to distinguish between different cell types. In addition, such a cDNA species, once cloned, can be used to produce a protein for pharmaceutical application.